



Anelli di Tenuta

Rotary Shaft Seals



TENUTE RADIALI - RADIAL SEALS

ANELLI DI TENUTA PER ALBERI ROTANTI 5
ROTATORY SHAFTS SEALS

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DG/DG METAL SHAFT SEALS

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TENUTE RADIALI | RADIAL SEALS

Anelli di tenuta per alberi rotanti - *Rotary shafts seals*

Le guarnizioni radiali per alberi vengono utilizzate come tenuta tra un componente rotante ed uno stazionario o tra due componenti che si muovono in moto relativo.

Le principali funzioni sono:

- Ritenuta del fluido lubrificante
- Isolamento da impurità e polvere dall'esterno

Le caratteristiche principali sono (vedi Fig. 1):

- Rivestimento esterno per garantire tenuta statica
- Labbro di tenuta con molla di trazione
- Uno o più labbra parapolvere per prevenire il contatto con agenti contaminanti

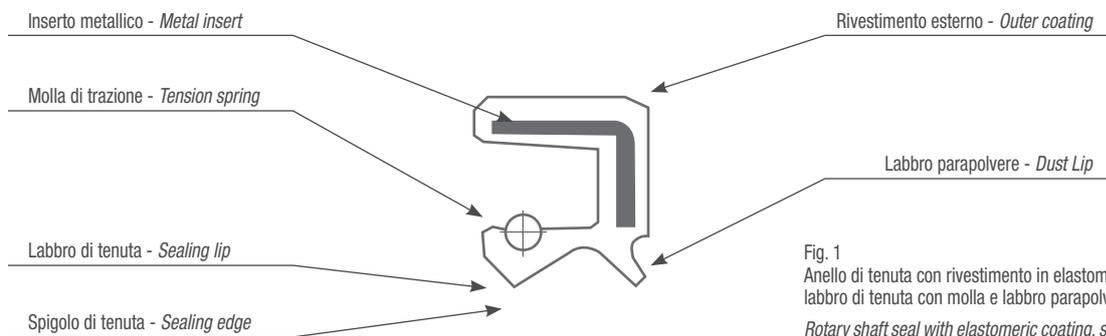
Radial shaft sealing rings are used as sealing elements between a rotary component and a stationary one, ore between two components in relative motion.

Main functions:

- *Retaining the lubrication fluid*
- *Insulation from external dirt and dust*

Main features (see Fig. 1):

- *External coating to ensure a static sealing effect*
- *Sealing lip with tension spring*
- *One or more dust lips to prevent contact with contaminants*



Profili - Profiles



Tabella di corrispondenza sigle commerciali - *Commercial acronyms correspondence table*

SIGLE COMMERCIALI - COMMERCIAL ACRONYMS							
DIN3760	A	AS	ASP	B	BS	C	CS
ASIA	SC	TC	TCP	SB2	TB2	SA2	TA2
CORCOS	BA	BASL	BABSL	B1	B1SL	B2	B2SL
FRIDLE	A	AS	ASP	B1	B1SL	B2	B2SL

Selezione della tenuta - *Seal selection*

La valutazione delle condizioni di esercizio è decisiva per la scelta della tipologia di tenuta per ogni applicazione. A questo riguardo le variabili più importanti sono:

- Fluidi da ritenere
- Velocità periferica
- Temperatura
- Pressione
- Contaminazione dall'esterno

In order to choose the right sealing solution for each application, it is crucial to assess the working conditions. In particular, the following factors should be taken into account:

- *Media to be sealed*
- *Circumferential speed*
- *Temperature*
- *Pressure*
- *External contaminants*

Fluidi da ritenere e materiali - *Media to be sealed and materials*

Il fluido da ritenere determina in modo importante la scelta del materiale della tenuta.

L'interazione chimica tra fluido e materiale della guarnizione è strettamente correlata anche alla temperatura di esercizio che, al suo aumentare, accelera gli effetti del contatto.

Nella tabella seguente sono schematizzati i materiali più comuni utilizzati nella produzione di tenute e le loro caratteristiche:

The choice of the sealing material depends largely on the media to be sealed.

Moreover, the chemical interaction between fluid and sealing material is strictly related to the working temperature: the higher the temperature, the quicker the contact effects.

The following table summarizes the most common materials and their features:

MATERIALI - MATERIALS				
Sigla Acronym	Temperatura impiego Working temperature (°C)	Vantaggi Advantages	Limiti Limits	Molla in acciaio Steel spring
NBR	-40 + 120 olio (+90 acqua) -40 + 120 oil (+90 water)	Buona resistenza a olii, grassi minerali, acqua, fluidi per radiatori, buona resistenza all'usura. <i>Good resistance to oils, mineral greases, water, radiator fluids. Good resistance to wear and tear.</i>	Scarsa resistenza all'ozono, chetoni, estere, esteri, idrocarburi clorurati, solventi aromatici. Non resiste al fluido per freni (base glicole). <i>Poor resistance to ozone, ketones, esters, chlorinated hydrocarbons, aromatic solvents. Not resistant to glycol based brake fluid.</i>	Acciaio - <i>Steel</i> A richiesta - <i>Upon request</i> AISI 316
FPM	-30 + 200	Buona resistenza a oli, acidi, idrocarburi aromatici, clorurati, ozono. Ottima resistenza alla temperatura. <i>Good resistance to oils, acids, aromatic and chlorinated hydrocarbons, ozone. Excellent resistance to temperature.</i>	Scarsa flessibilità alle basse temperature, ai fluidi polari (chetoni, etere, eteri). <i>Poor flexibility at low temperatures. Poor resistance to polar fluids (ketones and ethers).</i>	AISI 316
SIL	-60 + 200	Buona resistenza a oli, grassi minerali, ozono, alcali, ottima flessibilità a temperature molto basse, scarso indurimento all'esposizione continua ad alte temperature. <i>Good resistance to oils, mineral greases, ozone, alkalis. Excellent flexibility at very low temperatures. Withstands continuous heating at high temperatures without hardening.</i>	Sconsigliato per l'uso a contatto con idrocarburi come benzene, paraffina. Non resiste all'acqua bollente, agli acidi e fluidi freni. Scarsa resistenza all'usura. <i>Not recommended to be used in contact with hydrocarbons such as benzene or paraffin. Not resistant to boiling water, acids and brake fluids. Not very resistant to wear and tear.</i>	AISI 316
PTFE	-80 + 200	Ottima resistenza a oli, acidi e soluzioni aggressive, funzionamento anche in assenza di lubrificazione. Ottima resistenza alle basse temperature. <i>Excellent resistance to oils, acids and aggressive solutions, it does not require lubrication. Excellent resistance to low temperatures.</i>	Materiale non elastico, scarsa resistenza all'abrasione. <i>Inelastic material, low abrasion resistance.</i>	AISI 316

TENUTE RADIALI | RADIAL SEALS

Velocità periferica - Circumferential speed

La formula seguente mostra come calcolare il valore della velocità periferica V dell'albero e verificare che la zona di funzionamento sia all'interno dei valori massimi consigliati per il tipo di materiale (vedi Fig. 2):

$$V = \frac{D \times V_{rot} \times \pi}{60000}$$

V = Velocità periferica [m/s]
Circumferential speed [m/s]

D = Diametro dell'albero [mm]
Shaft diameter [mm]

V_{rot} = Velocità di rotazione dell'albero [giri/min]
Shaft rotation speed [rpm]

The following formula allows you to calculate the circumferential speed V of the shaft and to check that the working range does not exceed the maximum values recommended for the relevant type of material (see Fig. 2):

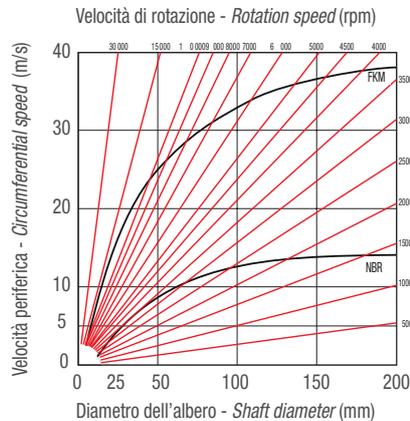


Fig. 2
Velocità periferica consigliata per anelli di tenuta in NBR e FKM
Circumferential speed suggested for rotary shaft seals in NBR and FKM

Lubrificazione e temperatura - Lubrication and temperature

La lubrificazione è molto importante per il buon funzionamento dell'anello. Il labbro di tenuta non deve agire a contatto diretto con l'albero ma su un film di sostanza lubrificante.

Lo spessore del film è normalmente compreso fra 1 - 3 μm ed è determinato da diversi fattori: la viscosità dell'olio utilizzato, la finitura superficiale, il carico radiale dell'anello, la temperatura, e l'eccentricità.

Nelle prime ore di funzionamento, il labbro e lo spigolo di tenuta dell'anello si assestano nella propria sede, durante l'assestamento possono verificarsi delle piccole perdite di lubrificante.

Una adeguata lubrificazione riduce notevolmente l'attrito tra il labbro dell'anello e l'albero, agendo da refrigerante del calore generatosi.

Per la durata qualitativa dell'anello è importante mantenere una temperatura moderata, non superiore a X $^{\circ}\text{C}$, in presenza di fluidi con scarsa capacità lubrificante, si consiglia di usare gli anelli tipo AS, B1SL o B2SL.

In questo caso lo spazio tra il labbro di tenuta e il parapolvere deve essere riempito con del grasso per diminuire l'attrito ed evitare non solo l'usura dell'anello ma anche un'eventuale perdita di potenza del sistema che, in presenza di potenze limitate, potrebbe essere considerevole.

Nei diagrammi seguenti sono rappresentate le curve relative al sovrariscaldamento e alla perdita di potenza in funzione della velocità di rotazione.

Lubrication is very important for the effective performance of the seal. The sealing lip should not run on the shaft directly, but on an oil film.

Generally, the thickness of the oil film is normally included between 1 - 3 μm and it depends on many different factors: oil viscosity, shaft surface finish, seal radial load, temperature and eccentricity of the shaft.

In the first few hours of operation the sealing lip adjusts to the groove, during the adjustment period, small leaks of lubricant may occur.

Adequate lubrication reduces significantly the friction between the sealing lip and the shaft, acting as coolant for the generated heat.

It is important to maintain moderate temperatures, not exceeding X $^{\circ}\text{C}$, to guarantee a longer and qualitative life expectancy of the seal. Should the fluid have poor lubricating capacity, it is recommended to use AS, B1SL or B2SL rings.

In this particular case, the gap between the dust lip and the sealing lip should be filled with grease to lower the friction and to avoid not only the ring wear and tear, but also the system loss of power which, in the event of low operational power, could be extremely relevant.

See the following diagrams for heating vs. shaft diameter and power loss vs. linear speed.

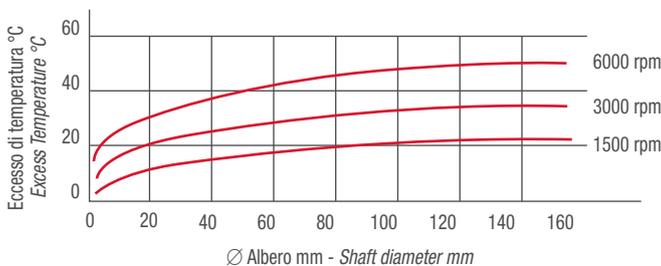


Fig. 3
Incremento della temperatura del labbro di tenuta in funzione del numero di giri e del diametro dell'albero

Sealing lip temperature increase as a function of rpm and shaft diameter

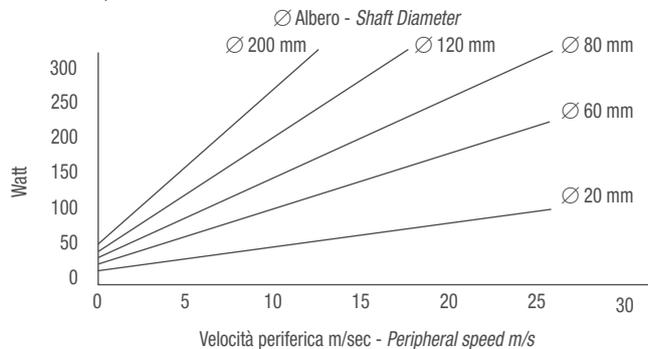


Fig. 4
Perdita di potenza per attrito in funzione della velocità periferica e del diametro dell'albero
Loss of power due to friction as a function of the circumferential speed and of the shaft diameter

La temperatura di lavoro alla quale il labbro di tenuta è esposto è pari alla somma della temperatura del lubrificante più il valore della temperatura generata dal riscaldamento per attrito (Fig. 3).

L'invecchiamento dell'elastomero che compone l'anello di tenuta è direttamente proporzionale al valore della temperatura a cui è sottoposto, con conseguente diminuzione della tenuta.

The working temperature on the sealing lip is equal to the temperature of the lubricating fluid plus the temperature raise caused by the frictional heat (Fig. 3).

Elevated working temperatures of the ring correspond to rapid ageing of its elastomeric material, with consequent loss of sealing ring efficiency.

Pressione - Pressure

La maggior parte delle applicazioni in cui sono utilizzati gli anelli di tenuta presentano pressioni di lavoro basse o addirittura nulle.

In alcuni casi l'anello di tenuta può essere sottoposto a pressioni maggiori, con conseguenti effetti negativi sulla tenuta stessa. Ad esempio l'eccessiva pressione può causare il ribaltamento del labbro di tenuta.

Sopra gli 0,2 bar con alta velocità periferica o sopra gli 0,5 bar con velocità periferiche più moderate, si devono utilizzare anelli di sostegno con labbro di tenuta ed inserto metallico più resistenti (Fig. 5).

Negli anelli di tenuta di tipo AS-P la massima pressione di funzionamento può raggiungere i 10 bar. Nel diagramma in Fig. 6 si stima il valore limite di pressione in funzione della velocità di rotazione e diametro dell'albero.

AS-P

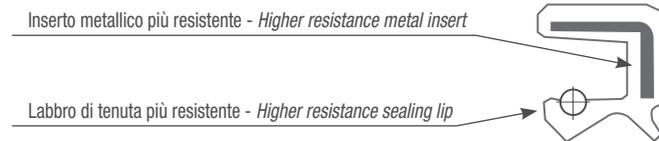


Fig. 5
Anello di tenuta tipo AS-P
Type AS-P rotary shaft seal

In caso di elevate pressioni di funzionamento è possibile utilizzare anelli di tenuta standard abbinati ad anelli di sostegno. È comunque più vantaggioso, per costi e intercambiabilità, optare per gli anelli di tenuta tipo AS-P.

Criteria di dimensionamento ed installazione - Hardware design criteria and installation

ALBERO

La finitura superficiale dell'albero è di primaria importanza sia per l'efficacia sia per la durata del labbro di tenuta.

La norma DIN 3760 suggerisce i valori limite di durezza e rugosità per ottimizzare il funzionamento:

- Durezza minima 45 HRC
- Per velocità periferica > 4 m/s 55 HRC
- Per velocità periferica > 10 m/s 60 HRC
- Rugosità superficiale: Rz compresa tra 1 e 4 µm

La superficie dell'albero, inoltre, non deve presentare imperfezioni di lavorazione o graffi che possano causare l'aumento dello spessore del film presente tra l'albero e lo spigolo di tenuta, provocando delle perdite.

Il materiale più comunemente usato per la costruzione dell'albero è l'acciaio temperato con tolleranza dimensionale h11, secondo lo standard ISO UNI 6388-68 (valori indicati nella tabella sotto riportata).

Ø ALBERO - SHAFT OD (mm)		TOLLERANZA - TOLERANCE (mm)	
da from	fino a to	h11	
6	10	0	-0.090
10	18	0	-0.110
18	30	0	-0.130
30	50	0	-0.160
50	80	0	-0.190
80	120	0	-0.220
120	180	0	-0.250
180	250	0	-0.290
250	315	0	-0.320
315	400	0	-0.360

In most applications, where shaft seals are used, there is no or little differential pressure.

There are exceptions where the rotary shaft seal is exposed to higher pressure and this could affect sealing efficiency. For example, pressure can cause the overturning of the sealing lip.

Over 0.2 bars at high circumferential speed or over 0.5 bars at lower circumferential speed must be used seals specially designed rotary shaft seals with heavy-duty lip and supporting metal insert (Fig. 5). In the rings type AS-P max working pressure can reach 10 Bars.

The following diagram Fig. 6 shows max working pressure vs. revolution per minute and diameter of the shaft.

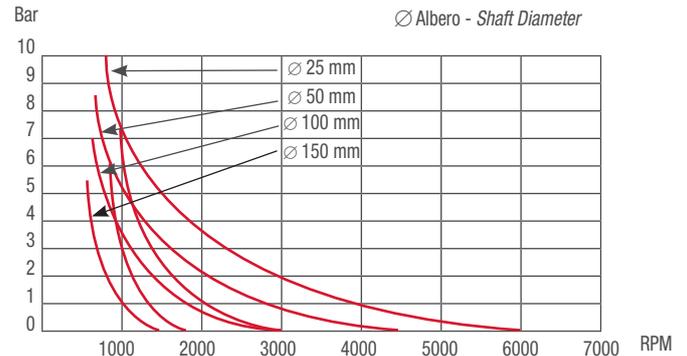


Fig. 6

Curve di massima pressione di funzionamento consentita con anelli di tipo AS-P in funzione della velocità di rotazione e del diametro dell'albero

Max working pressure curves for rings type AS-P in function of rpm and diameter of the shaft

If supporting rings are installed, standard rotary shaft seal can be used with high pressures. However, it is more cost efficient to use sealing rings AS-P, which are interchangeable with standard rotary shaft seals.

SHAFT

The shaft surface finishing is extremely important for both the seal efficiency and the lifespan of the sealing lip.

DIN 3760 standard suggests some maximum values for hardness and rugosity to optimize seal working:

- Minimum hardness: of 45 HRC
- Circumferential speed > 4 m/sec 55 HRC
- Circumferential speed > 10 m/sec 60 HRC
- The shaft surface: finishing should be between R = 1 and 4 µm

The shaft surface should be free of defects or scratches to avoid thickening of the film between the shaft and the sealing edge and possible leakage.

The most commonly used material is tempered steel. The h11 tolerance is reported in the following table, according to ISO UNI 6388-68 standards.

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Eccentricità dell'albero - Shaft eccentricity

Un albero in rotazione perfettamente centrato e concentrico rispetto alla sede in cui alloggia l'anello di tenuta garantisce all'anello stesso la migliore prestazione.

In molte applicazioni una certa eccentricità è inevitabile; pertanto il labbro di tenuta si trova a dover compensare il più possibile questi spostamenti.

In situazione di staticità del sistema, si deve fare in modo di ridurre il più possibile il disassamento tra l'albero e la sede per evitare di esercitare un carico costante sullo stesso punto del labbro di tenuta.

Nel diagramma di seguito (Fig. 7) sono rappresentati i valori massimi di eccentricità in funzione della velocità dell'albero.

A rotating shaft perfectly centred and concentric to the seal groove guarantees the best performances of the seal.

In many working applications, some eccentricity is unavoidable, causing the sealing lip to compensate for small position changes.

In static situations, the dislodging of the shaft from its position should be limited as much as possible to circumvent continuous loading of the lip in the same area.

In the following diagram (Fig. 7) are indicated maximum suggested values for eccentricity of the shaft related to the rotational speed.

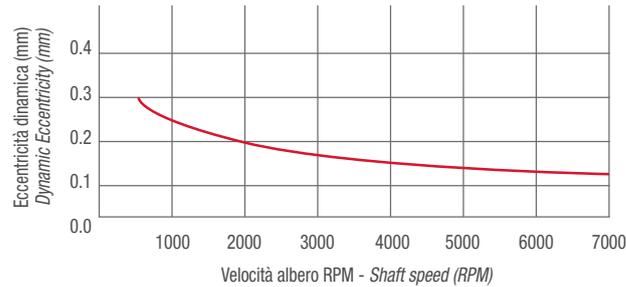


Fig. 7

Valore massimo di eccentricità suggerito in funzione della velocità di rotazione dell'albero

Max. dynamic eccentricity of the shaft suggested as a function of the rotational speed of the shaft

Sede - Housing

Il diametro esterno dell'anello di tenuta ha una tolleranza che assicura un accoppiamento stabile tra anello e sede. Per la sede non è richiesta una particolare finitura, la rugosità superficiale deve comunque essere superiore a $3,2 \mu\text{m Ra}$.

È importante fare in modo che l'anello non risulti posizionato obliquamente nella sua sede.

È consigliabile realizzare sempre uno smusso sull'imbocco della sede, da 5 a 10° , con una profondità di 1 mm per anelli con altezza (spessore) fino a 10 mm e di $1,2$ - $1,5$ mm per anelli con altezza superiore (vedi Fig. 8).

Le tolleranze dimensionali di lavorazione suggerite per il diametro delle sedi sono H8, secondo lo standard ISO UNI 6388-68 (vedi nella tabella seguente).

There are no particular finishing requirements for the housing of the shaft, however, the Surface roughness should not be greater than $3.2 \mu\text{m}$.

The external diameter of the ring has enough tolerance to assure a stable fit between ring and housing.

It is important that the ring is not positioned sideways with respect to its housing.

The entrance of the groove should have a bevel with 5° - 10° tilt and depth of 1 mm for rings up to 10 mm thickness and 1.2 - 1.5 mm d for rings with higher thicknesses, to ease installation.

H8 working tolerances of the housing diameters, in accordance with ISO standards UNI 6388-68, are indicated in the following chart.

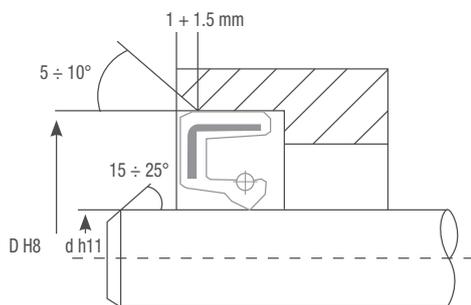


Fig. 8

Profondità e smussi della sede - Depth and chamfer on the locating bore

Ø ALBERO - SHAFT OD (mm)		TOLLERANZA - TOLERANCE (mm)	
da - from	fino a - to	h8	
10	18	+0.027	0
18	30	+0.033	0
30	50	+0.039	0
50	80	+0.046	0
80	120	+0.054	0
120	180	+0.063	0
180	250	+0.072	0
250	315	+0.084	0
315	400	+0.089	0
400	500	+0.097	0

Tolleranze di montaggio - Installation tolerances

Le tolleranze di montaggio ed eccentricità limite sono prescritte dalla normativa DIN 3760 e riportate nella tabella sotto in funzione del tipo di anello di tenuta.

Per la valutazione delle dimensioni della sede la norma DIN 3761 parte 6 prevede che il diametro debba essere misurato in due punti, sfasati di 90° e che il valore da utilizzare sia rappresentato dalla media fra le due misure.

L'eccentricità permessa, non deve essere superata da ogni misura singola.

Installation tolerances and eccentricity are allowed as per DIN 3760 standards.

As provided by DIN 3761 part 6 standards, the diameter must be measured in two different areas, misaligned of 90° and the diameter to be used is the average of the two measurements.

The consequent allowed eccentricity cannot exceed any of the single measurements.

Ø ALBERO SHAFT OD (mm)		TOLLERANZA DI MONTAGGIO INSTALLATION TOLERANCE (mm)				ECCENTRICITÀ PERMESSA ALLOWED ECCENTRICITY (mm)
da - from	fino a - to	tipo - type		tipo - type		B1-B1SL-B2-B2SL
		A	AS	B1-B1SL-B2-B2SL		
-	50	+0.30	+0.15	+0.20	+0.10	0.25
50	80	+0.35	+0.20	+0.23	+0.13	0.35
80	120	+0.35	+0.20	+0.25	+0.15	0.50
120	180	+0.45	+0.25	+0.28	+0.18	0.65
180	300	+0.45	+0.25	+0.30	+0.20	0.80
300	500	+0.55	+0.30	+0.35	+0.23	1.00

Anelli di tenuta tipo DG / DG Metal - DG / DG Metal shaft seals

Anelli di tenuta senza molla per l'utilizzo su alberi rotanti in modo tradizionale (Fig. 9) o come raschiatori su applicazioni con movimento alternativo (Fig. 10).

La caratteristica principale di questo profilo è che l'attrito tra labbro e albero risulta minimizzato.

Le tenute DG sono rinforzate con un inserto metallico con un singolo labbro sottile in elastomero ed offrono una minima interferenza al montaggio.

Per un fissaggio migliore in cava, l'esterno dell'anello può avere delle ondulazioni in elastomero, ad eccezione delle misure per alberi fino a 7 mm che sono con esterno metallico (versione metal).

Gli anelli tipo DG standard sono in materiale elastomerico nitrilico NBR con inserto in acciaio al carbonio. Su richiesta sono fornibili con elastomero in FPM e l'inserto in acciaio Inox.

These sealing rings have no spring and can be used with alternate motion. In the latter case they are used as scrapers to prevent lubricant leakage.

They are reinforced with a metal insert and have a single thin elastomeric lip, no spring and minimal interference at positioning, thus allowing for minimal friction between lip and rotary shaft.

To better fit in to the groove, the ring has an elastomeric waved outer diameter, with the exception of the rings for rotary shaft up to 7 mm diameter which have a metal outer ring.

Standard material for seals VCW - VB is the elastomeric NBR with carbon steel insert. FPM elastomeric rings with stainless steel insert are available upon request.

Profili - Profiles



Tipo DG - Type DG



DG metal - DG metal

Tabella di corrispondenza sigle commerciali - Commercial acronyms correspondence table

TABELLA DI CORRISPONDENZA SIGLE COMMERCIALI COMMERCIAL ACRONYMS CORRESPONDENCE TABLE		
DIN 3760	AO	B0
ASIA	VC	VB
CORCOS	BAOF	B10F
FRIDLE	DG	DG Metal

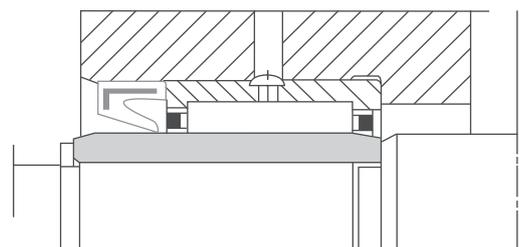


Fig.9
Utilizzo di anelli di tenuta tipo DG come tenuta - Seal use

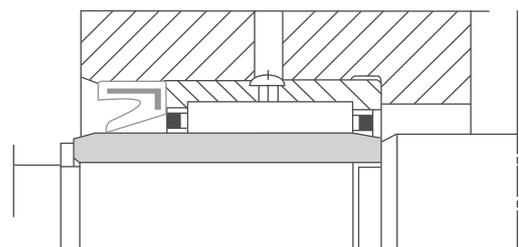


Fig.10
Utilizzo di anelli di tenuta DG come raschiatore - Scraper use

TENUTE RADIALI | RADIAL SEALS

Anelli tipo FTR FTS - FTR FTS seals

Gli anelli di tenuta tipo FTR e FTS hanno, nel diametro esterno, un rinforzo in gomma tela, labbro di tenuta in gomma e molla in acciaio AISI 302.

Gli anelli serie FT sono progettati come anelli di tenuta per cuscinetti nei laminatoi, industria cartaria e applicazioni marine.

Gli anelli FTR offrono diversi vantaggi:

- Non è essenziale un'accurata finitura della sede
- Estrema facilità di montaggio
- Nessun problema di corrosione
- Facilità nella sostituzione

Il profilo FTR standard è fornito in NBR, mentre su richiesta (in funzione, dell'applicazione) in FKM.

Il Profilo FTS viene generalmente richiesto con una scanalatura anulare per permettere al lubrificante di raggiungere il labbro di tenuta.

Normalmente si effettua il montaggio gemellare (Fig. 11).

FTR and FTS seals are rotary shaft seals with rubber fabric reinforced outer ring, rubber sealing lip and stainless steel spring AISI 302.

The FT rings have been designed as bearing seals for rolling mills, paper mills and for marine applications.

FTR rings have several advantages:

- Accurate machining of the housing groove is not critical
- Easy assembly
- No corrosion problems
- Easy replacement

The standard FTR profile is supplied in NBR, and upon request in FKM, depending on the type of application.

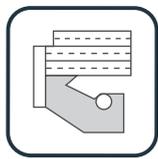
Generally, the FTS profile is requested with an annular groove to allow the lubricant to reach the sealing lip.

Usually, installation is carried out with a twin assembly (Fig. 11).

Profili - Profiles



Tipo FTR - Type FTR



Tipo FTS - Type FTS

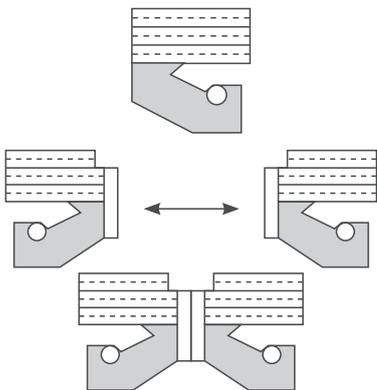


Fig.11
Esempio di montaggio anello tipo FTS
Example of installation of FTS seals

Criteri di dimensionamento - Hardware design criteria

Per il dimensionamento di albero e sede si consigliano le seguenti tolleranze e finiture:

Following tolerances and finitures of shaft and housing are recommended:

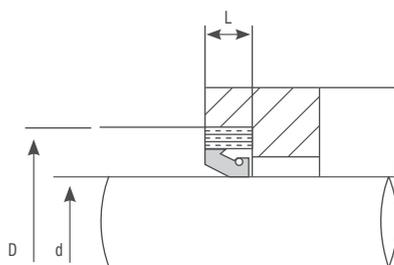


Fig. 12
Anello FTR - FTS
FTR - FTS seal

ALBERO D - SHAFT D	
Parametro - Parameter	Valore Value
Tolleranza - Tolerance	ISO H9
Rugosità - Roughness	4 µm
Durezza - Hardness	55 HRC

SEDE L - HOUSING L	
Parametro - Parameter	Valore - Value
Tolleranza - Tolerance	ISO H8
Rugosità - Roughness	16 µm

Anelli tipo FTR SPLIT - FTR SPLIT seals

Anello di tenuta senza inserto metallico, tagliato (split), per favorire il montaggio dell'anello in posizioni ove non sia possibile lo smontaggio delle parti meccaniche, oppure ove lo smontaggio e il rimontaggio delle stesse risulti molto costoso.

Sono prodotti standard realizzati in elastomero NBR e a richiesta possono essere forniti in FPM.

La figura 13 mostra l'accoppiamento delle parti tagliate dopo il montaggio in sede.

FTR Split deve essere installato con l'apertura in corrispondenza del punto più alto dell'albero (H vedi figura 14) e non va usato dove il livello del fluido (in posizione statica) è più alto del punto più basso dell'anello.

La sede dell'anello deve essere, inoltre, provvista di flangia per dare compressione assiale all'anello stesso.

The FTR Split ring is a rotary shaft seal without metal insert. It is split to allow fitting where mechanical parts cannot be taken down or where the cost of disassembly and re-assembly is too onerous.

The standard material for this type of ring is NBR, but FPM is also available upon request.

Shown in Figure 13 is the fitting of the split parts after installation of the ring in its housing.

FTR Split rings must be fitted with the split at the highest point of the shaft and should not be used where the static level of the fluid is higher than the lowest point of the seal (See Figure 14 detail H).

The housing should be equipped with a flange to axially compressed the ring.

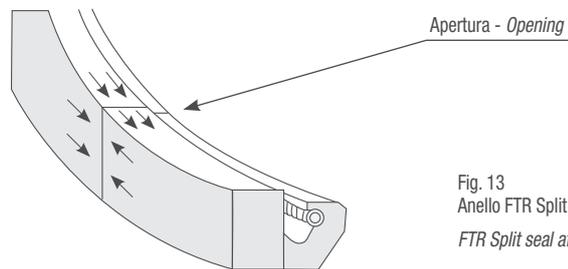


Fig. 13
Anello FTR Split dopo il montaggio
FTR Split seal after installation

Criteri di dimensionamento ed installazione - Hardware design criteria and installation

Per il dimensionamento di albero e sede si consigliano le seguenti tolleranze e finiture:

Following tolerances and finitures of shaft and housing are recommended:

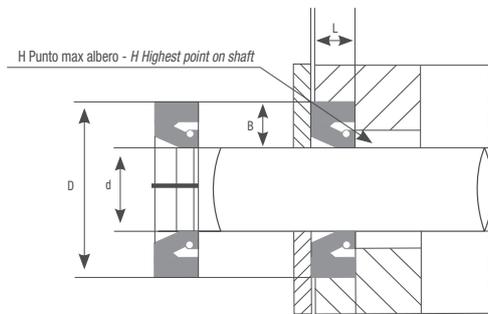


Fig. 14
Anello FTR Split - FTR Split seal

ALBERO D - SHAFT D	
Parametro - Parameter	Valore - Value
Tolleranza - Tolerance	ISO H9
Rugosità - Roughness	4 μm
Durezza - Hardness	55 HRC

SEDE L - HOUSING L					
\varnothing Albero d Shaft d (mm)	\varnothing Sede D tolleranza Housing D tolerance (mm)	Profondità cava L tolleranza Depth groove L tolerance	Dimensione consigliata variabile x tipo di impiego Suggested different dimension for type of use		
			B (mm)	L (mm)	b (mm)
< 140	± 0.12	± 0.05	20	16	2.0
> 140 ÷ 200	± 0.15	± 0.07	20	16	2.0
> 200 ÷ 300	± 0.15	± 0.10	22	20	2.2
> 300 ÷ 450	± 0.20	± 0.12	22	20	2.2
> 450	± 0.20	± 0.15	25	22	2.5

TENUTE RADIALI | RADIAL SEALS

Anelli di tenuta VLIP - VLIP seals

Gli anelli di tenuta VLIP sono costituiti da due alloggiamenti metallici tra cui viene incastrata una guarnizione anulare in PTFE.

La tenuta statica è garantita da una guarnizione elastomerica tra l'elemento in PTFE e l'anima metallica interna (Fig. 15).

VLIP seals consist of two metallic housings between which an annular PTFE seal is fitted.

A static sealing effect is ensured by an elastomeric gasket between the PTFE element and the internal metal core (Fig. 15).

Caratteristiche principali:

- Ottimo comportamento in assenza di lubrificazione
- Idoneo ad installazioni con elevate velocità periferiche, fino a 40 m/s
- Esente da fenomeni di "stick-slip"

Main features:

- Excellent properties in the absence of lubrication
- Suitable for installations with high circumferential speeds, up to 40 m/s
- No "stick-slip" effect

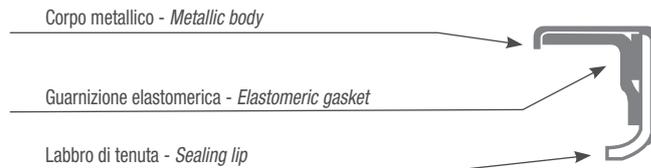
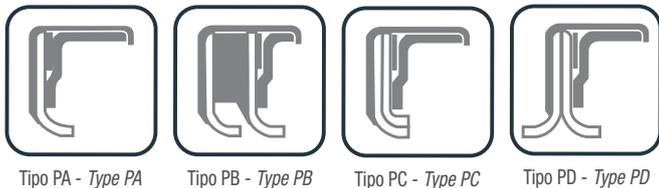


Fig. 15
Anello di tenuta VLIP tipo PA
VLIP seal type PA

Profili - Profiles



Il **Tipo PA** è una tenuta a un labbro adatta per le applicazioni con pressione max = 5 bar, laddove una guarnizione radiale non sarebbe in grado di resistere a temperatura, attrito, scarsa lubrificazione.

Questo tipo di profilo consente velocità periferiche fino a 40 m/sec.

Il **Tipo PB** è la scelta migliore per applicazioni che richiedono una elevata tenuta o sia necessario effettuare una tenuta contro fluidi contaminati.

Il **Tipo PC** viene impiegato per quelle applicazioni con pressioni più elevate per le quali non è più sufficiente una semplice tenuta radiale elastomerica.

Grazie al labbro di tenuta rinforzato, sono ammissibili pressioni fino a 20 bar.

Il **Tipo PD** a differenza dei profili PA - PB - PC che possono essere impiegati per una tenuta esposta alla pressione solo da un lato, può essere impiegato con pressione da entrambi i lati.

Sono ammesse pressioni fino a 1 bar. Un pratico utilizzo può essere per la separazione di due fluidi diversi. Si consiglia di mettere grasso fra i labbri di tenuta.

The sealing rings **type PA** have a single sealing lip and are recommended for industrial applications with a maximum pressure of 5 bars, where standard sealing rings would not withstand temperature, friction or insufficient lubrication.

This sealing ring type allows for peripheral speed up to 40 m/s.

The sealing rings **type PB** are best either for applications which require high sealing performance or when contaminated fluids must be sealed out.

The **PC sealing** rings are recommended for high pressure applications where standard elastomeric sealing rings are not sufficient.

Thanks to the reinforced sealing lip, VLIP PC can withstand pressures up to 20 bars.

VLIP PD differs from the other ones in that it can withstand pressure on both sides. It allows for pressures up to 1 bar. It is typically used to separate different kinds of fluids. It is suggested to use grease between the two sealing lips.

CRITERI DI SCELTA - SELECTION CRITERIA

Profilo Profile	Materiale Material	Durezza albero Hardness shaft	Pressione Pressure (bar)	Temperatura Temperature (°C)	Funzione Function
	25	> 55 HRC	5	-60 + 200*	Semplice effetto - Single effect
	40	> 30 HRC			
	78	> 170 HB			
	25	> 55 HRC	5	-60 + 200*	Semplice effetto - Single effect
	40	> 30 HRC			
	78	> 170 HB			
	25	> 55 HRC	20	-60 + 200*	Semplice effetto - Single effect
	40	> 30 HRC			
	78	> 170 HB			
	25	> 55 HRC	1	-60 + 200*	Doppio effetto - Double effect
	40	> 30 HRC			
	78	> 170 HB			

* I limiti di temperatura possono variare in funzione del materiale elastomerico considerato - Temperature limits can change in relation to the elastomeric material considered

MATERIALI - MATERIALS					
Codice Code	Materiale labbro Lip Material	Proprietà Property	Durezza superficie di contatto Contact surface hardness	Temperatura Temperature (°C)	Pressione max. Max pressure (bar)
25	PTFE + vetro + MoS2 PTFE + glass + MoS2	Materiale con eccezionali caratteristiche antiusura e antiattrito, è particolarmente adatto per un'ampia gamma di temperature ed è resistente alla maggior parte dei fluidi. <i>Material exceptionally resistant to wear and tear and friction and to the majority of fluids. Suitable for a wide range of temperatures.</i>	> 55 HRC	-60 +200	20
40	PTFE + carbongrafite PTFE + carbon graphite	Materiale con buone caratteristiche antiattrito, è particolarmente adatto per un'ampia gamma di temperature ed è resistente alla maggior parte dei fluidi. Adatto a superfici medio dure. <i>Standard material resistant to friction and to the majority of fluids. Suitable for a wide range of temperatures and medium hard surfaces.</i>	> 30 HRC	-60 +200	20
78	PTFE + polimeri Aromatici PTFE + aromatic polymers	Materiale per fluidi lubrificanti e non, elevata resistenza all'usura, elevate proprietà di scorrimento anche con superfici morbide e con scarsa lubrificazione, elevata resistenza chimica, FDA. <i>Material suitable for lubricating and non-lubricating fluids, exceptionally resistant to wear and tear and with high sliding properties even on soft surfaces with low lubrication, high chemical resistance, FDA.</i>	> 170 HB	-60 +200	2

Criteria di dimensionamento ed installazione - Hardware design criteria and installation

Le guarnizioni per albero VLIP si adattano nella maggior parte dei casi alle cave conformi alla DIN 3760.

Per evitare danni al labbro di tenuta è necessario porre molta attenzione durante il montaggio del VLIP.

Se la guarnizione viene montata posteriormente rispetto all'albero, le estremità dell'albero devono essere arrotondate o provviste di smussi di imbocco (Fig. 16).

Quando la guarnizione viene montata su un albero con il labbro di tenuta contro l'estremità dello stesso è necessario prevedere uno smusso d'imbocco il cui diametro più piccolo sia inferiore al diametro del labbro di tenuta non sollecitato.

In Fig. 17 sono indicati i valori guida per tale eventualità.

The gaskets for VLIP shaft are generally suitable for grooves compliant to DIN 3760 standards.

It is particularly important to be careful with the sealing lip during installation of VLIP rings to avoid damage.

If the gasket is installed to the back of the shaft, the shaft edges must be smoothed or provided with entry chamfers (Fig. 16).

If the gasket is installed against the shaft itself, it is necessary to have an entry chamfer where the smallest diameter is smaller than the diameter of the unloaded sealing lip.

The figure 17 provides measure of the diameter requirements.

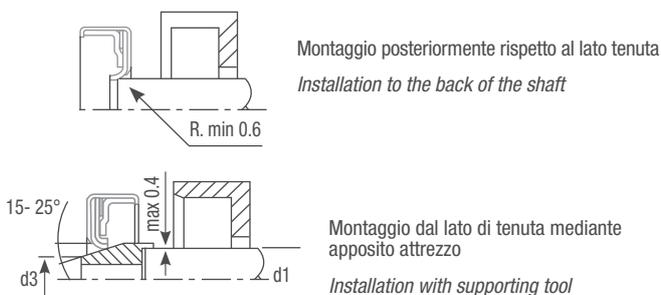
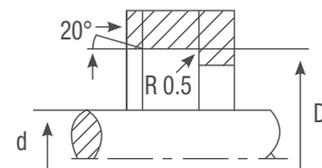


Fig. 16
Istruzioni di montaggio
Installation instructions



Diametro albero d - Shaft diameter d (mm)	6-60	65-135	140-170
Diametro cono d2 - Cone diameter d2 (mm)	d-3	d-4	d-5.5

Fig. 17
Dimensionamento dispositivo di montaggio
Installation tool design

Rugosità superficiale dell'albero - Shaft surface roughness

Per un buon funzionamento di tenuta e durata, è molto importante la qualità della finitura della superficie di contatto.

Devono essere evitati graffi, scanalature, porosità, segni di lavorazione concentrici o a spirale. È molto più importante la finitura della superficie dinamica rispetto a quella statica (fondo cava).

Nella tabella si possono trovare i valori suggeriti di rugosità.

The shaft surface finishing is of chief importance both for the seal efficiency and for the lifespan of the sealing lip.

Scratches, grooves, porosity, concentric or spiral grinding must be avoided. The dynamic finishing is more important than the static finishing of the bottom groove.

Please refer to the table below for suggested values of shaft finishing.

Parametro - Parameter	Superficie albero - Shaft finishing (mm)	Foro - Bore (µm)
Rmax	1.00 - 4.00	< 10.0
Rz DIN	0.63 - 2.50	< 6.3
Ra	0.10 - 0.40	< 1.6

TENUTE RADIALI | RADIAL SEALS

Tenute a labbro - Lip seals

Le guarnizioni a labbro sono una variante degli anelli VLIP, caratterizzate da una tenuta statica elastomerica sul diametro esterno.

Possono essere scelte per la loro economicità, in alternativa ai VLIP, e per la facilità di montaggio e smontaggio.

Le componenti principali sono rappresentate nella figura seguente:

Lip seals are a variant of VLIP rings, and are characterized by a static elastomeric seal on the external diameter.

Their advantage is that they are less expensive than VLIP products (especially in case of small batches), as well as easy to assemble and disassemble for maintenance operations.

The main components are illustrated in the following figure:

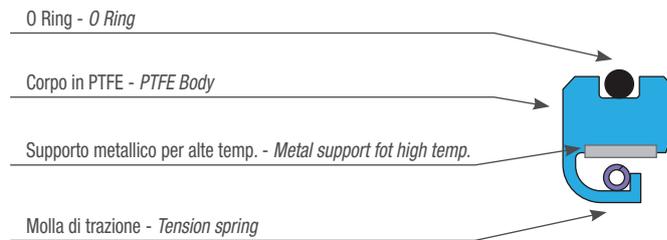
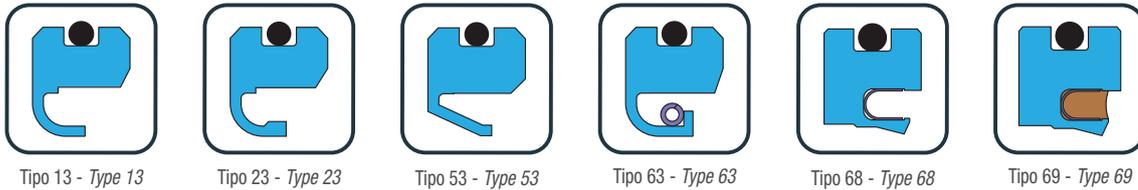


Fig.18
Tenuta tipo 64 - Lip Seal type 64

Profili - Profiles



Il profilo **Tipo 13** (disponibile in variante 14 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) viene usato in una vasta gamma di applicazioni. Questa tipologia di tenuta è idonea al funzionamento in ambienti lubrificati e non lubrificati; può essere utilizzata con velocità periferia fino a 25 m/s (con lubrificazione) e pressioni fino a 0,5 MPa.

Il profilo **Tipo 23** (disponibile in variante 24 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) offre una migliore tenuta di gas e materiali abrasivi grazie al carico superiore del labbro. e presenta un'ulteriore capacità dell'eccentricità dell'albero. I limiti applicativi sono i medesimi della serie precedente. Con questo tipo di tenuta si raccomanda una durezza dell'albero minima di 55 HRC. Applicazioni tipiche sono: scatole del cambio, motori e pompe sommerse.

Il profilo **Tipo 53** (disponibile in variante 54 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) permette basse perdite per attrito ed è idoneo al funzionamento a velocità periferiche fino a 30 m/s. Questa tipologia di tenuta non è raccomandata per pressioni maggiori di 0,2 Mpa e, dato il carico leggero del labbro, questa configurazione non dovrebbe essere usata quando è necessaria una forte tenuta da perdite. Applicazioni tipiche sono: para-polvere e para-sporco, tenute per mandrini e convogliatori.

Il profilo **Tipo 63** (disponibile in variante 64 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) è dotato di molla di trazione che migliora la tenuta in caso di eccentricità o disallineamento dell'albero. Questa configurazione garantisce un'ottima tenuta anche dopo lunghi periodi di inattività, può essere usata a velocità fino a 10 m/s e pressioni fino a 0,5 Mpa. Applicazioni tipiche sono: miscelatori, scatole del cambio e trivelle.

Il profilo **Tipo 68** (disponibile in variante 78 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) è adatto ad applicazioni ad elevata pressione e bassa velocità, quando è necessaria una maggiore tenuta. La molla ad U assicura un carico positivo sul labbro di tenuta. Le variazioni di temperatura sono meglio compensate. Il materiale standard della molla è Elgiloy® e la tenuta esterna tramite O-Ring è in FKM.

Il profilo **Tipo 69** (disponibile in variante 79 con stesse caratteristiche geometriche ma con rinforzo metallico per alte temperature) è una configurazione simile al Tipo 68 con interno in silicone per applicazioni in campo alimentare e le applicazioni in cui la solidificazione del fluido in contatto con la tenuta potrebbe interferire con il funzionamento della molla. L'interno in silicone standard è rosso e la molla è realizzata in lega metallica Elgiloy® (materiale con ottima resistenza alla corrosione, duttilità e durata).

Series 13 (available in variant 14 with the same geometrical characteristics and a metal reinforcement for high temperature) is employed in a wide range of applications. This kind of seal is suitable for lubricated and non-lubricated environments; it can be used at shaft speeds up to 25 m/s (in lubricated media) and pressures up to 0,5 MPa.

Series 23 (available in variant 24 with the same geometrical characteristics and a metal reinforcement for high temperature) offers improved sealing of gases and abrasive media, due to its higher lip load, and an additional runout capability. It can operate at speeds and pressures as noted in Series 13 and 14, and at a recommended shaft hardness of 55 HRC. Typical applications are: gearboxes, submersible pumps and motors.

Series 53 (available in variant 54 with the same geometrical characteristics and a metal reinforcement for high temperature) offers low torque and long life. This type of seals can be used at shaft speeds up to 30 m/s, it is not recommended for pressures greater than 0,2 MPa and, due to light lip loading, this design should not be used where a leak tight seal is required. Typical applications are: dust/dirt excluders, spindle and conveyor seals.

Series 63 (available in variant 64 with the same geometrical characteristics and a metal reinforcement for high temperature) incorporates spring loading which improves sealing where shaft runout or bore/shaft misalignment exist. This configuration offers positive sealing during long term storage, it can be used at shaft speeds up to 10 m/s and pressures up to 0,5 MPa. Typical applications are: mixers, gearboxes and augers.

Series 68 (available in variant 78 with the same geometrical characteristics and a metal reinforcement for high temperature) is designed for higher pressure and low speed applications where better tightness is required. The U-spring ensures positive load on the sealing lip; temperature changes are better compensated. The Standard spring material is Elgiloy® and the outer sealing ORing is an FKM material.

Series 69 (available in variant 79 with the same geometrical characteristics and a metal reinforcement for high temperature) is configured like series 68 filled with silicon for food applications and for those applications where solidification of the medium could interfere with the spring function. Standard silicon filling is red, the spring is made of metallic alloy called Elgiloy® (material corrosion resistant that exhibit ductility and good fatigue life).

Temperatura di funzionamento tenuta a labbro - Lip seal working temperature

Il diagramma seguente indica i limiti di selezione tra i profili standard e per alte temperature:

Following diagram shows max temperature for standard and high temperature profiles:

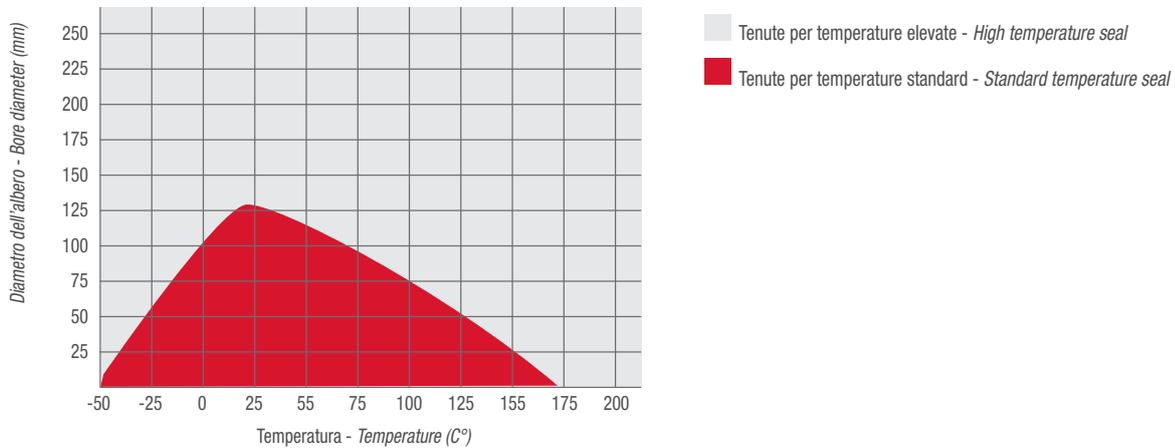


Fig.19
Massima temperatura di funzionamento per tenute a labbro
Lip seals max working temperature

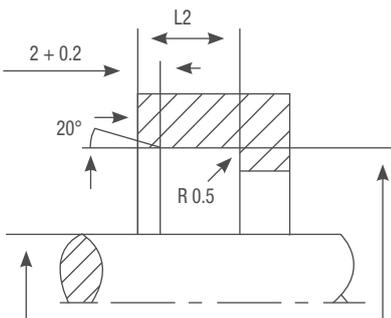
Criteri di dimensionamento ed installazione - Hardware design criteria and installation

Le guarnizioni a labbro si adattano nella maggior parte dei casi alle cave conformi alla norma DIN 3760.

The gaskets Lip Seal are generally suitable for grooves compliant to DIN 3760 standards.

Per un corretto montaggio della tenuta è necessario prevedere l'utilizzo di un cono di montaggio con il diametro di partenza inferiore a quello del labbro si tenuta non sollecitato (valori indicati in fig. 20).

If the seal is installed against the shaft itself, it is necessary to use a mounting tool where the smallest diameter is smaller than the diameter of the unloaded sealing lip (See fig. 20 for diameter requirements).



Diametro albero d - Shaft diameter d	6-60	65-135	140-170
Diametro cono d2 - Cone diameter d2	d-3	d-4	d-5.5

Fig. 20
Dimensionamento dispositivo di montaggio
Installation tool design

TENUTE ASSIALI | AXIAL SEALS

Tenute assiali V-Ring - V-Ring axial seal

Le tenute V-Ring per alberi rotanti hanno un design semplice (vedi Fig. 21) e sono utilizzate per diversi tipi di applicazione.

La loro funzione principale è quella di proteggere dai contaminanti esterni, il cuscinetto o la tenuta principale, in caso di utilizzo come tenuta secondaria.

L'installazione dei V-Ring è solidale con l'albero ed il labbro di tenuta ruota contro la superficie di applicazione.

Le tenute V-Ring sono realizzate interamente in materiale elastomerico, in modo da adattarsi perfettamente all'albero e garantire una buona tenuta anche in caso di eccentricità o disassamento dello stesso.

V-Ring seals for rotating shafts have a simple design (see Fig. 21) and are used in a wide range of applications.

Their main feature is to protect from contaminants, the bearing or the primary seal, in case of use as secondary seal.

V-rings are installed with interference on the shaft and the sealing lip rotate against the counterface.

V-ring seals are made entirely of elastomers to fit perfectly to the shaft and guarantee an high seal also with misalignment and eccentricity of the shaft.

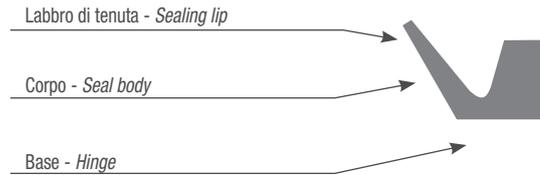


Fig.21
Caratteristiche dei V-Ring
V-Ring features

Profili - Profiles



Tipo VA - Type VA



Tipo VS - Type VS



Tipo VL - Type VL



Tipo VE - Type VE

Il **Tipo VA** è il profilo più comune, con sezione standard e lato esterno del corpo perpendicolare all'albero. Le applicazioni tipiche sono a protezione dei cuscinetti in riduttori o motori elettrici.

Il **Tipo VS** ha il lato esterno del corpo inclinato e permette un fissaggio più stabile sull'albero. Utilizzo tipico è in agricoltura e settore automotive.

Il **Tipo VL** è stato ottimizzato per aver un ridotto ingombro assiale per applicazioni con poco spazio a disposizione.

Il **Tipo VE** è progettato per le applicazioni più gravose dove è necessaria una protezione maggiore della tenuta principale ottenuta tramite un corpo maggiorato ed un labbro di tenuta più lungo.

The **VA type** is the most common profile: it has a standard section and the external side of the body is perpendicular to the shaft. Typical applications include protection of bearings in reducers or electric motors.

In the **VS type**, the external side of the body is sloped and improves stability when the component is fastened to the shaft. It is typically used in agriculture and in the automotive industry.

The **VL type** was optimized to reduce the axial space taken up in case of applications with little room available.

The **VE type** is designed for heavy-duty applications that require a higher level of protection in the main seal, which is achieved thanks to a larger body and a longer sealing lip.

MATERIALI - MATERIALS			
Sigla Acronym	Temperatura impiego Working temperature (°C)	Vantaggi Advantages	Limiti Limits
NBR	-40 + 120 olio (90 acqua) -40 + 120 oil (+90 water)	Buona resistenza a olii, grassi minerali, acqua, fluidi per radiatori, buona resistenza all'usura. Good resistance to oils, mineral greases, water, radiator fluids. Good resistance to wear and tear.	Scarsa resistenza all'ozono, chetoni, estere, esteri, idrocarburi clorurati, solventi aromatici. Non resiste al fluido per freni (base glicole). Poor resistance to ozone, ketones, esters, chlorinated hydrocarbons, aromatic solvents. Not resistant to glycol based brake fluid.
FPM	-30 + 200	Buona resistenza a oli, acidi, idrocarburi aromatici, clorurati, ozono, ottima resistenza alla temperatura. Good resistance to oils, acids, aromatic and chlorinated hydrocarbons, ozone. Excellent resistance to temperature.	Scarsa flessibilità alle basse temperature, ai fluidi polari (chetoni, etere, eteri). Poor flexibility at low temperatures. Poor resistance to polar fluids (ketones and ethers).

Criteria di dimensionamento - Hardware design criteria

ALBERO

Le tenute V-Ring ruotano in maniera solidale all'albero, richiedono solamente di evitare bave o geometrie che possano danneggiarli durante l'installazione ed una moderata rugosità superficiale.

In particolare, si raccomandano valori di Ra < 6,3 µm mentre, qualora fosse richiesta la tenuta contro fluidi o piccole particelle solide, si consiglia un valore max di Ra = 3,2 µm.

SHAFT

V-Ring seals rotate together with the shaft and only require avoiding burrs or particular geometrical configurations that may damage them during installation, as well as a moderate surface roughness.

In particular, the Ra values should be lower than 6.3 µm, whereas they should not exceed 3.2 µm in case the assembly should be sealed against fluids or small solid particles.

Tenute Gamma - Gamma seals

Le tenute Gamma sono state sviluppate per fornire protezione dagli agenti contaminanti in ambienti particolarmente gravosi.

Questo tipo di tenuta è composta da un elemento elastomerico simile ai V-Ring inserito in una cassa metallica (vedi Fig. 22).

L'installazione sull'albero è fatta tramite l'elemento metallico per garantire una protezione maggiore all'elemento elastomerico prolungandone la durata e l'efficienza.

Un'ulteriore vantaggio è la possibilità di raggiungere elevate velocità periferiche mantenendo l'elemento di tenuta in posizione.

Le tenute Gamma possono essere, inoltre, utilizzate come tenuta principale con fluidi ad elevata viscosità.

Gamma seals have been developed to ensure protection against contaminants in heavy-duty environments.

This type of seal consists of an elastomeric, V-Ring-type element fitted in a metal case (see Fig. 22).

The component is installed onto the shaft by means of the metal element to ensure a better protection for the elastomeric element, thus ensuring a longer service life and more efficiency.

A further advantage is the possibility of achieving high circumferential speeds while keeping the sealing element in position.

Gamma seals may also be used as main seals for high-viscosity fluids.

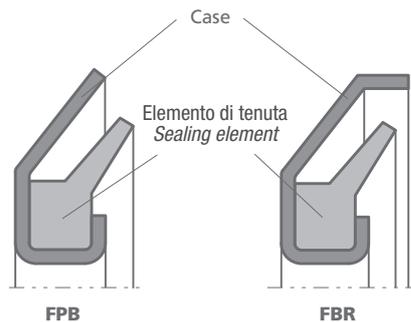


Fig. 22
Tenute gamma
Gamma seals

Profili - Profiles



Tipo FPB - Type FPB



Tipo FBR - Type FBR

L'elemento di tenuta è costituito come standard da gomma nitrilica con durezza 75Sh.

Su richiesta è possibile fornire altri materiali elastomerici.

La cassa è costituita da una lamiera d'acciaio laminata a freddo e stampata.

Per assicurare una buona tenuta e una forte presa sullo stelo, il diametro interno viene tornito in modo che le sue quote assicurino un'adeguata aderenza.

La cassa metallica normalmente è zincata, ma può essere composta anche da altri materiali come, ad esempio, l'acciaio inossidabile.

The standard sealing element consists of a nitrile rubber with a hardness value of 75Sh.

Further elastomeric materials are available upon request.

The case is made of a moulded cold-rolled steel sheet.

To ensure a good sealing effect and to fasten the component tightly to the shaft, the internal diameter is lathed in such a way that its levels ensure proper adhesion.

The metal case is usually zinc-coated, but it may also consist of other materials, such as stainless steel.

TENUTE ASSIALI | AXIAL SEALS

Criteria di dimensionamento ed installazione - Hardware design criteria and installation

La tenuta Gamma **Tipo FPB** viene installata con la tenuta posizionata sull'elemento da proteggere (vedi Fig. 23).

La superficie di tenuta per il tipo FBR deve inoltre essere progettata con una cava che permetta l'estensione dell'armatura, in modo da creare lo spazio di tenuta.

La tolleranza dimensionale suggerita per l'albero è ISO h9 per permettere un'adeguata aderenza.

È inoltre possibile usare le tolleranze normalmente usate per i cuscinetti a sfera e a rullo, ISO da g6 a n6.

La tenuta non necessita di altri fissaggi assiali se non quello ottenuto dalla pressione tra la cassa e l'albero.

Per facilitare il montaggio si suggerisce di utilizzare un utensile come indicato nelle seguenti figure.

Gamma seal **type FPB** should normally be installed, with the seal located in the medium which it is to seal against (Fig. 23).

As shown in figure 24 the counter face for type FBR against which the sealing lip works should be designed with a groove for the case extension in order to create the clearance seal.

Shaft tolerance ISO h9 provides a suitable press fit.

The shaft tolerances normally used for ball and roller bearings, ISO g6 to n6, can also be used.

The seal does not require any other axial fixing other than that which is obtained by the press fit between the case and the shaft.

However, providing a shoulder or a circlip to position the ring may facilitate fitting. The installation dimensions are given in the dimension table.

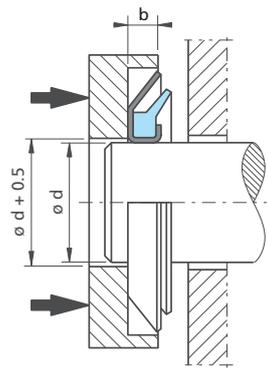


Fig. 23
Attrezzo di montaggio per FPB
Assembly tool for FPB

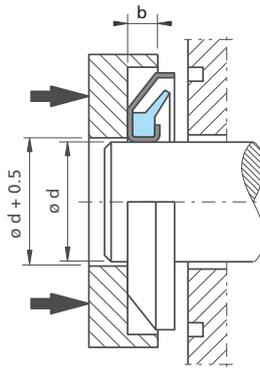


Fig. 24
Attrezzo di montaggio per FBR
Assembly tool FBR

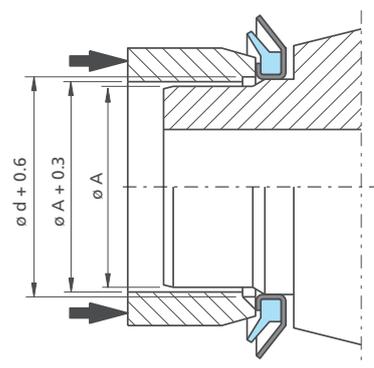


Fig. 25
Quando si posiziona la tenuta Gamma contro una spalla è importante non deformarlo premendo con un carico troppo elevato
Assembly tool. When positioning the Gamma seal against a shoulder it is important not to deform the case by pressing with too high load

Tenuta assiale per albero - Axial shaft seal

Le tenute assiali per albero sono principalmente utilizzate come protezione dalle impurità per cuscinetti a rulli.

Questo tipo di tenuta è costituita da un corpo in materiale elastomerico rinforzato da un anello metallico e con un labbro di tenuta energizzato da una molla (vedi Fig. 26).

La caratteristica principale è la ridotta forza di compressione assiale che viene mantenuta costante durante il funzionamento.

La forma conica del labbro di tenuta minimizza, inoltre, attrito ed usura della tenuta.

Axial shaft seals are mainly used to protect roller bearings from dirt.

This kind of seal consists of an elastomeric body reinforced by a metal ring with a spring-energized sealing lip (see Fig. 26).

It offers especially a reduced axial compression force, which is kept constant during operations.

Furthermore, the tapered shape of the sealing lip minimizes friction and wear in the seal.

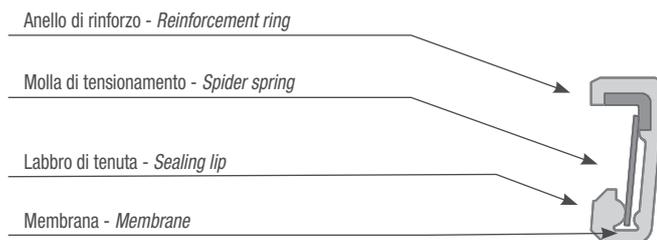


Fig.26
Tenuta assiale - Axial seal

Profili - Profiles



Tipo I - Type I



Tipo E - Type E

Il corpo in materiale elastomerico è costituito come standard da gomma nitrilica.

Su richiesta è possibile fornire altri materiali elastomerici in funzione del tipo di applicazione.

Nella tabella seguente sono indicati i limiti di installazione in funzione del tipo di materiale:

The standard elastomeric body is made of nitrile rubber.

Further elastomeric materials are available upon request, depending on the type of application.

The following table shows the installation limit values depending on the type of material:

Sigla Acronym	Temperatura Temperature (°C)	Velocità Speed (m/s)	Tipo tenuta Seal Type
NBR	-30 a 120	20	Tipo I - Type I
		10	Tipo E - Type E
FPM	-25 a 250	30	Tipo I - Type I
		15	Tipo E - Type E

Criteria di dimensionamento ed installazione - Hardware design criteria and installation

La tenuta assiale **Tipo I** con labbro di tenuta interno, viene utilizzata principalmente per la tenuta di fluidi.

La tenuta, generalmente, viene montata per interferenza sul diametro esterno con il labbro di tenuta contro l'albero rotante (vedi Fig. 27).

La tenuta dovrebbe essere sempre installata in modo che il fluido scorra sul labbro di tenuta.

Si raccomanda di evitare il funzionamento a secco.

La tenuta assiale di **Tipo E** con labbro di tenuta esterno viene utilizzata per la tenuta di grassi. (vedi fig 28).

Può essere selezionata anche per la tenuta di fluidi ma a basse velocità (1/3 della max velocità consentita nella tabella sopra) e con una superficie di contatto preferibilmente lucidata o lappata (elevata finitura superficiale).

Type I axial shaft seal with internal sealing lip, is used primarily for sealing of fluids.

The seal is generally press fitted in the housing with the sealing lip against the rotating shaft (Fig. 27).

The seal should always be installed so that the sealing lip is flushed by the fluid.

Dry running must be avoided.

Type E axial shaft seal with external sealing lip, is used to seal against grease (Fig. 28).

At low speeds (1/3 of the max speed indicated in the chart above), and with a polished or lapped contact surface, it can also be used for sealing against fluids.

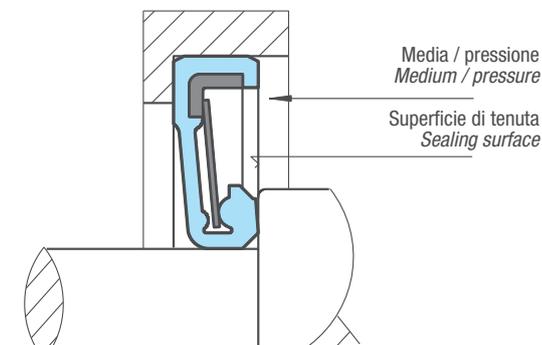


Fig. 27
Tipo I, tenuta interna
Type I, internal sealing

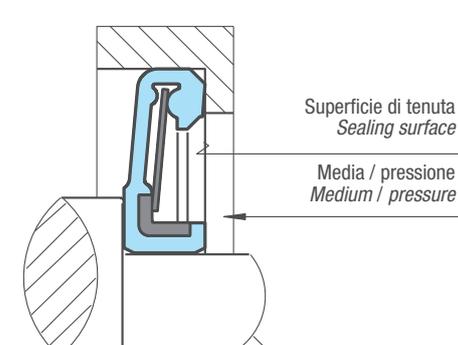


Fig. 28
Tipo E, tenuta esterna
Type E, external sealing

DIMENSIONI | DIMENSIONS

Anelli di tenuta NBR e FKM - NBR and FKM rotary shaft seals



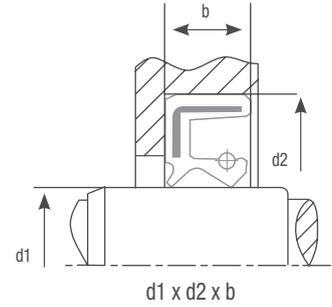
Tipo A - Type A



Tipo AS - Type AS



Tipo ASP - Type ASP



Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
04 x 10 x 4	A	•	
04 x 11 x 4	A	•	
04 x 11 x 6	A	•	•
04 x 12 x 6	A	•	•
04 x 16 x 4	A	•	
04.5 x 16 x 7	AS	•	
05 x 15 x 5	AS	•	•
05 x 15 x 6	A	•	
05 x 15 x 6	AS	•	•
05 x 16 x 6	A	•	
05 x 16 x 7	A	•	•
05 x 17 x 7	AS	•	
05 x 19 x 5	A	•	
05 x 19 x 5	AS	•	
06 x 12 x 4	A	•	
06 x 12 x 4.5	A	•	
06 x 12 x 5	A	•	
06 x 12 x 5.5	A	•	
06 x 13 x 4.5	A	•	
06 x 14 x 6	A	•	•
06 x 15 x 4	A	•	•
06 x 15 x 5	AS		•
06 x 15 x 7	A	•	
06 x 15 x 7	AS	•	
06 x 16 x 5	A	•	
06 x 16 x 5	AS	•	
06 x 16 x 6	A	•	•
06 x 16 x 6	ASP	•	
06 x 16 x 6	AS		•
06 x 16 x 7	A	•	•
06 x 16 x 7	AS	•	•
06 x 19 x 5	A	•	
06 x 19 x 6	A	•	•
06 x 19 x 7	A	•	•
06 x 19 x 7	AS	•	
06 x 20 x 6	A	•	•
06 x 20 x 6	AS	•	
06 x 22 x 7	A	•	•
06 x 22 x 7	AS	•	•
07 x 14 x 5	A	•	
07 x 15 x 5	A	•	
07 x 16 x 7	A	•	•
07 x 16 x 7	AS	•	•
07 x 18 x 7	A	•	
07 x 18 x 8	AS	•	
07 x 19 x 6	A	•	
07 x 19 x 7	AS	•	
07 x 22 x 7	A	•	•
07 x 22 x 7	AS	•	•
08 x 12 x 4	AS	•	
08 x 12 x 5	AS	•	
08 x 14 x 4	A	•	•
08 x 14 x 5	AS	•	
08 x 14 x 6	A	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
08 x 15 x 5	A	•	
08 x 15 x 5	AS	•	
08 x 15 x 5	A	•	
08 x 16 x 4	A	•	
08 x 16 x 5	A	•	
08 x 16 x 5	AS	•	•
08 x 16 x 6	A	•	•
08 x 16 x 6	AS	•	•
08 x 16 x 7	A	•	•
08 x 16 x 7	AS	•	•
08 x 16 x 7	ASP	•	
08 x 17 x 7	AS	•	
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08 x 18 x 5	AS	•	•
08 x 18 x 6	A	•	
08 x 18 x 6	AS	•	
08 x 18 x 7	A	•	
08 x 18 x 7	AS	•	
08 x 18 x 8	AS	•	
08 x 19 x 6	A	•	
08 x 19 x 7	A	•	
08 x 19 x 7	AS	•	•
08 x 20 x 5	AS	•	•
08 x 20 x 7	A	•	•
08 x 20 x 8	A	•	•
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08 x 22 x 5	A	•	
08 x 22 x 6	AS	•	
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08 x 26 x 7	AS	•	
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08 x 34 x 8	AS	•	
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09 x 17 x 4	AS	•	
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09 x 17 x 5	AS	•	
09 x 18 x 7	A	•	
09 x 18 x 8	AS	•	
09 x 19 x 4	A	•	
09 x 19 x 5	A	•	
09 x 19 x 7	A	•	
09 x 20 x 6	ASP	•	
09 x 20 x 7	AS	•	
09 x 22 x 7	A	•	•
09 x 22 x 7	AS	•	
09 x 24 x 7	A	•	•

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
09 x 24 x 7	AS	•	
09 x 26 x 7	A	•	
09 x 30 x 7	A	•	
10 x 16 x 4	A	•	•
10 x 16 x 4	AS	•	
10 x 16 x 5	A	•	
10 x 16 x 5	AS	•	
10 x 17 x 5	AS	•	
10 x 17 x 6	A	•	
10 x 18 x 4	A	•	•
10 x 18 x 4	AS	•	•
10 x 18 x 5	A	•	
10 x 18 x 5	AS	•	
10 x 18 x 6	A	•	
10 x 18 x 6	AS	•	•
10 x 18 x 7	AS	•	
10 x 18 x 8	A	•	
10 x 18 x 8	AS	•	
10 x 19 x 4	A	•	
10 x 19 x 6	A	•	
10 x 19 x 6	AS	•	
10 x 19 x 7	AS	•	•
10 x 19 x 7	A		•
10 x 20 x 4	A	•	
10 x 20 x 4.5	A	•	
10 x 20 x 5	A	•	
10 x 20 x 5	AS	•	•
10 x 20 x 6	A	•	•
10 x 20 x 6	AS	•	•
10 x 20 x 6	ASP	•	
10 x 20 x 6	AS	•	•
10 x 20 x 7	AS	•	•
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10 x 22 x 4	A	•	•
10 x 22 x 4	AS	•	
10 x 22 x 5	AS	•	
10 x 22 x 6	A	•	
10 x 22 x 6	AS	•	
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10 x 22 x 7	AS	•	•
10 x 22 x 7	ASP	•	
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10 x 24 x 10	A	•	
10 x 24 x 6	A	•	
10 x 24 x 7	A	•	•
10 x 24 x 7	AS	•	
10 x 25 x 7	AS	•	
10 x 25 x 7	ASP	•	
10 x 25 x 8	A	•	
10 x 25 x 8	AS	•	
10 x 26 x 5	AS	•	•
10 x 26 x 7	A	•	
10 x 26 x 7	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
10 x 26 x 7	ASP	•	•
10 x 26 x 8	AS	•	
10 x 28 x 7	A	•	•
10 x 28 x 8	AS	•	
10 x 30 x 10	A	•	
10 x 30 x 7	A	•	•
10 x 30 x 7	AS	•	•
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11 x 17 x 4	AS	•	
11 x 18 x 4	A	•	
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12 x 22 x 6	AS	•	•
12 x 22 x 6	ASP	•	
12 x 22 x 6.5	A	•	
12 x 22 x 6.5	AS	•	
12 x 22 x 7	A	•	•
12 x 22 x 7	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
12 x 22 x 7	ASP	•	
12 x 22 x 8	A	•	
12 x 22 x 9	AS	•	
12 x 23 x 8	AS	•	
12 x 24 x 10	A	•	
12 x 24 x 4.5	A	•	
12 x 24 x 5	A	•	
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12 x 27 x 7	AS	•	
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12 x 28 x 5	AS	•	•
12 x 28 x 6	A	•	
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13 x 20 x 5	AS	•	
13 x 20 x 7	AS	•	
13 x 22 x 4	A	•	
13 x 22 x 4	AS	•	
13 x 22 x 5	A	•	
13 x 22 x 5	AS	•	•
13 x 22 x 5	ASP	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
13 x 22 x 6	A	•	
13 x 22 x 7	AS	•	
13 x 24 x 5	A	•	
13 x 24 x 7	A	•	
13 x 24 x 7	AS	•	•
13 x 25 x 5	A	•	
13 x 25 x 5	AS	•	
13 x 25 x 7	A	•	
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13 x 26 x 5	AS	•	•
13 x 26 x 7	A	•	
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13 x 26 x 9	AS	•	
13 x 28 x 7	A	•	
13 x 28 x 7	AS	•	
13 x 30 x 7	A	•	•
13 x 32 x 6	A	•	•
14 x 20 x 5	A	•	
14 x 21 x 4	A	•	
14 x 22 x 3	A	•	•
14 x 22 x 4	A	•	•
14 x 22 x 4	AS	•	
14 x 22 x 4.5	AS	•	
14 x 22 x 5	AS	•	•
14 x 22 x 6	A	•	
14 x 22 x 6	AS	•	
14 x 22 x 7	AS	•	
14 x 22 x 7	A		•
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14 x 26 x 7	A	•	
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14 x 35 x 7	A	•	
14 x 35 x 7	AS	•	•
14 x 35 x 8	AS	•	
14 x 35 x 10	AS	•	
14 x 35 x 7	A	•	•
14 x 35 x 7	AS	•	
14 x 35 x 8	AS	•	
15 x 21 x 4	A	•	
15 x 21 x 4	AS	•	
15 x 21 x 5	A	•	
15 x 21 x 5	AS	•	

DIMENSIONI | DIMENSIONS

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
15 x 22 x 4	AS	•	
15 x 22 x 5	AS	•	•
15 x 22 x 7	A	•	
15 x 22 x 7	AS	•	•
15 x 23 x 4	A	•	
15 x 23 x 5	A	•	
15 x 23 x 7	AS	•	
15 x 24 x 4	A	•	•
15 x 24 x 4	AS		•
15 x 24 x 4.5	A	•	
15 x 24 x 5	A	•	•
15 x 24 x 5	AS	•	•
15 x 24 x 5	AS	•	
15 x 24 x 6	AS	•	
15 x 24 x 6	ASP	•	
15 x 24 x 7	A	•	
15 x 24 x 7	A	•	•
15 x 24 x 7	AS	•	•
15 x 24 x 7	ASP	•	•
15 x 25 x 5	A	•	•
15 x 25 x 5	AS	•	
15 x 25 x 5	ASP	•	
15 x 25 x 6	ASP	•	•
15 x 25 x 6	AS		•
15 x 25 x 7	A	•	
15 x 25 x 7	AS	•	•
15 x 25 x 7	ASP	•	
15 x 25 x 7	A	•	
15 x 25.5 x 7	AS	•	
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15 x 26 x 4.5	AS	•	
15 x 26 x 5	A	•	
15 x 26 x 7	A	•	•
15 x 26 x 7	AS	•	•
15 x 26 x 7	ASP	•	
15 x 26 x 8	AS		•
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15 x 27 x 7	AS	•	
15 x 28 x 4	A	•	•
15 x 28 x 5	A	•	•
15 x 28 x 6	A	•	
15 x 28 x 6	A	•	•
15 x 28 x 7	A	•	•
15 x 28 x 7	AS	•	•
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15 x 30 x 10	AS	•	
15 x 30 x 4	A	•	
15 x 30 x 4.5	A	•	
15 x 30 x 5	A	•	
15 x 30 x 5	AS	•	•
15 x 30 x 5.5	A	•	
15 x 30 x 6	A	•	
15 x 30 x 7	A	•	•
15 x 30 x 7	AS	•	•
15 x 30 x 7	ASP	•	
15 x 30 x 8	A	•	
15 x 30 x 8	AS	•	
15 x 31 x 5	AS		•
15 x 32 x 10	AS	•	•
15 x 32 x 5	AS	•	•
15 x 32 x 7	A	•	•
15 x 32 x 7	AS	•	•
15 x 32 x 7	ASP	•	
15 x 32 x 8	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
15 x 32 x 8	AS	•	
15 x 33 x 10	AS	•	
15 x 35 x 10	A	•	•
15 x 35 x 10	AS	•	•
15 x 35 x 5	A	•	•
15 x 35 x 5	AS	•	
15 x 35 x 6	AS	•	
15 x 35 x 6	ASP	•	
15 x 35 x 7	A	•	•
15 x 35 x 7	AS	•	•
15 x 35 x 7	ASP	•	•
15 x 35 x 8	A	•	
15 x 35 x 8	AS	•	
15 x 36 x 7	A	•	
15 x 36 x 7	AS	•	
15 x 37 x 7	A	•	•
15 x 37 x 7	AS	•	
15 x 38 x 7	AS	•	
15 x 38 x 8	A	•	
15 x 40 x 10	A	•	
15 x 40 x 10	AS	•	
15 x 40 x 7	A	•	
15 x 40 x 7	AS	•	
15 x 42 x 10	A	•	
15 x 42 x 10	AS	•	
15 x 42 x 7	A	•	•
15 x 42 x 7	AS	•	•
16 x 22 x 4	A	•	•
16 x 22 x 4	AS	•	•
16 x 24 x 4	A	•	•
16 x 24 x 4	AS	•	
16 x 24 x 5	A	•	•
16 x 24 x 5	AS	•	•
16 x 24 x 6	A	•	
16 x 24 x 6	AS	•	
16 x 24 x 7	A	•	•
16 x 24 x 7	AS	•	
16 x 25 x 5	AS	•	
16 x 25 x 6	AS	•	
16 x 25 x 7	A	•	
16 x 25 x 7	AS	•	
16 x 26 x 4	AS	•	
16 x 26 x 6	AS	•	
16 x 26 x 7	A	•	•
16 x 26 x 7	AS	•	
16 x 27 x 7	A	•	
16 x 27 x 7	AS	•	
16 x 28 x 4	AS	•	
16 x 28 x 6	A	•	
16 x 28 x 7	A	•	•
16 x 28 x 7	AS	•	
16 x 28 x 8	AS	•	•
16 x 30 x 10	A	•	•
16 x 30 x 5	A	•	•
16 x 30 x 5	AS	•	
16 x 30 x 7	A	•	
16 x 30 x 7	AS	•	•
16 x 30 x 8	A	•	
16 x 30 x 8	A	•	
16 x 30 x 8	AS	•	
16 x 30 x 7	A	•	•
16 x 30 x 7	AS	•	•
16 x 30 x 7	ASP	•	
16 x 32 x 10	AS	•	
16 x 32 x 5	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
16 x 32 x 6	A	•	
16 x 32 x 7	A	•	
16 x 32 x 7	A	•	•
16 x 32 x 7	AS	•	•
16 x 32 x 8	A	•	
16 x 32 x 8	AS	•	•
16 x 33 x 8	A	•	
16 x 34 x 4	A	•	
16 x 34 x 4	AS	•	
16 x 35 x 10	A	•	•
16 x 35 x 7	A	•	•
16 x 35 x 7	AS	•	•
16 x 40 x 10	A	•	
16 x 40 x 6	A	•	
16 x 40 x 6	A	•	
16 x 40 x 7	AS	•	•
17 x 22 x 5	A	•	
17 x 24 x 5	A	•	
17 x 24 x 7	A	•	
17 x 24 x 7	AS	•	
17 x 25 x 4	A	•	
17 x 25 x 4	AS	•	•
17 x 25 x 5	A	•	
17 x 25 x 7	A	•	
17 x 26 x 6	A	•	
17 x 26 x 6	AS	•	•
17 x 26 x 7	A	•	
17 x 27 x 10	AS	•	
17 x 27 x 5	A	•	•
17 x 27 x 5	AS	•	
17 x 27 x 5	ASP	•	
17 x 27 x 5	AS	•	
17 x 27 x 6	A	•	
17 x 27 x 6	AS		•
17 x 27 x 7	AS	•	•
17 x 27 x 8	AS	•	
17 x 28 x 5	A	•	
17 x 28 x 5	AS	•	•
17 x 28 x 6	A	•	
17 x 28 x 6	AS	•	•
17 x 28 x 6	ASP	•	•
17 x 28 x 6.5	AS	•	
17 x 28 x 7	A	•	•
17 x 28 x 7	AS	•	•
17 x 28 x 7	ASP	•	
17 x 28 x 8	A	•	•
17 x 28 x 8	AS	•	
17 x 29 x 5	AS	•	
17 x 29 x 7	AS	•	
17 x 30 x 5	A	•	
17 x 30 x 5	AS	•	•
17 x 30 x 6	AS	•	
17 x 30 x 6	ASP	•	•
17 x 30 x 7	A	•	
17 x 30 x 7	A	•	•
17 x 30 x 7	AS	•	•
17 x 30 x 7	ASP	•	
17 x 31 x 7	AS	•	
17 x 32 x 10	A	•	•
17 x 32 x 5	A	•	
17 x 32 x 5	AS	•	•
17 x 32 x 6	AS	•	
17 x 32 x 7	A	•	•
17 x 32 x 7	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
17 x 32 x 8	AS	•	
17 x 33 x 7	AS	•	
17 x 34 x 4	A	•	
17 x 34 x 4	AS	•	
17 x 34 x 7	A	•	
17 x 35 x 10	A	•	•
17 x 35 x 10	AS	•	•
17 x 35 x 5	A	•	
17 x 35 x 5	AS		•
17 x 35 x 6	A	•	
17 x 35 x 7	A	•	•
17 x 35 x 7	AS	•	•
17 x 35 x 7	ASP	•	
17 x 35 x 8	A	•	
17 x 35 x 8	AS	•	
17 x 35 x 8	AS	•	•
17 x 37 x 4	A	•	
17 x 37 x 7	AS	•	
17 x 38 x 11	A	•	
17 x 38 x 7	AS	•	
17 x 38 x 8	A	•	
17 x 40 x 10	A	•	•
17 x 40 x 10	AS	•	•
17 x 40 x 6	A	•	
17 x 40 x 6	AS	•	
17 x 40 x 7	A	•	•
17 x 40 x 7	AS	•	•
17 x 40 x 8	A	•	
17 x 40 x 8	AS	•	
17 x 40 x 8.5	A	•	•
17 x 42 x 7	A	•	
17 x 42 x 7	AS	•	
17 x 47 x 10	A	•	
17 x 47 x 10	AS	•	
17 x 47 x 7	A	•	•
17 x 47 x 7	AS	•	•
17 x 47 x 8	AS	•	
18 x 23 x 8	AS	•	
18 x 24 x 3	A	•	
18 x 24 x 4	A	•	
18 x 24 x 4	AS	•	•
18 x 24 x 5	A	•	
18 x 24 x 7	AS	•	
18 x 25 x 6	AS		•
18 x 25 x 7	AS	•	
18 x 26 x 4	A		•
18 x 26 x 4.5	A	•	
18 x 26 x 6	A	•	
18 x 26 x 7	A	•	
18 x 26 x 7	AS	•	
18 x 27 x 7	AS	•	
18 x 28 x 4	A	•	
18 x 28 x 4	AS	•	
18 x 28 x 5	A	•	
18 x 28 x 6	A	•	•
18 x 28 x 6.5	AS	•	
18 x 28 x 7	A	•	•
18 x 28 x 7	AS	•	•
18 x 28 x 8	A	•	•
18 x 28 x 8	AS	•	•
18 x 28 x 8	AS	•	
18 x 29 x 7	AS	•	
18 x 3 x 5	AS	•	
18 x 30 x 5	A	•	
18 x 30 x 6	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
18 x 30 x 6	AS	•	•
18 x 30 x 7	AS	•	
18 x 30 x 7	A	•	•
18 x 30 x 7	AS	•	
18 x 30 x 7	ASP	•	
18 x 32 x 5	A	•	•
18 x 32 x 6	AS	•	
18 x 32 x 6	ASP	•	
18 x 32 x 7	A	•	•
18 x 32 x 7	AS	•	•
18 x 32 x 8	A	•	
18 x 32 x 8	AS	•	
18 x 34 x 7	AS	•	
18 x 35 x 10	A	•	•
18 x 35 x 10	AS	•	•
18 x 35 x 6	ASP	•	•
18 x 35 x 6	AS		•
18 x 35 x 7	A	•	•
18 x 35 x 7	AS	•	•
18 x 35 x 7	ASP	•	•
18 x 35 x 8	A	•	•
18 x 35 x 8	AS	•	•
18 x 38 x 7	A	•	
18 x 38 x 7	AS	•	
18 x 40 x 10	A	•	•
18 x 40 x 7	A	•	•
18 x 40 x 7	AS	•	
18 x 42 x 8	A	•	
18 x 44 x 8	A	•	
18 x 47 x 10	AS	•	
19 x 25 x 6	AS	•	
19 x 27 x 5	AS	•	
19 x 27 x 6	A	•	•
19 x 27 x 6	AS	•	
19 x 27 x 6	ASP	•	
19 x 28 x 5	ASP	•	
19 x 28 x 5	AS		•
19 x 28 x 7	AS	•	
19 x 29 x 5	A	•	
19 x 29 x 6	AS	•	
19 x 29 x 6.5	A	•	
19 x 29 x 7	AS	•	
19 x 30 x 5	A	•	
19 x 30 x 5	AS		•
19 x 30 x 6.5	AS		•
19 x 30 x 7	A	•	•
19 x 30 x 7	AS	•	•
19 x 31 x 6	A	•	
19 x 32 x 10	A	•	•
19 x 32 x 10	AS	•	•
19 x 32 x 7	A	•	
19 x 32 x 7	AS	•	•
19 x 32 x 7	ASP	•	•
19 x 33 x 8	AS	•	
19 x 35 x 10	AS	•	•
19 x 35 x 7	A	•	•
19 x 35 x 7	AS	•	•
19 x 35 x 8	A	•	
19 x 35 x 8	AS	•	
19 x 37 x 10	A	•	
19 x 38 x 7	AS	•	•
19 x 40 x 10	AS	•	
19 x 40 x 6.5	A	•	
19 x 40 x 7	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
19 x 42 x 10	AS	•	
19 x 42 x 7	A	•	•
19 x 42 x 7	AS	•	
19 x 47 x 10	A	•	
19 x 47 x 10	AS	•	•
19 x 47 x 7	AS	•	
19 x 52 x 8	AS	•	
20 x 26 x 4	A	•	
20 x 26 x 4	AS	•	
20 x 26 x 5	AS	•	
20 x 27 x 5	AS	•	
20 x 28 x 4	A	•	
20 x 28 x 4	AS	•	•
20 x 28 x 5	A	•	
20 x 28 x 6	A	•	•
20 x 28 x 6	AS	•	•
20 x 28 x 7	A	•	
20 x 28 x 7	AS	•	•
20 x 30 x 4	A	•	
20 x 30 x 5	A	•	
20 x 30 x 5	AS	•	•
20 x 30 x 5	ASP	•	•
20 x 30 x 5	AS	•	•
20 x 30 x 6	A	•	
20 x 30 x 6	AS	•	
20 x 30 x 7	A	•	•
20 x 30 x 7	AS	•	•
20 x 30 x 8	AS	•	•
20 x 31 x 7	AS	•	
20 x 32 x 5	A	•	
20 x 32 x 5	AS	•	
20 x 32 x 6	AS	•	•
20 x 32 x 7	A	•	•
20 x 32 x 7	AS	•	•
20 x 32 x 7	ASP	•	•
20 x 32 x 8	A	•	
20 x 32 x 8	AS	•	
20 x 33 x 10	A	•	•
20 x 33 x 5	AS	•	
20 x 33 x 6	A	•	
20 x 33 x 7	AS	•	
20 x 33 x 9	A	•	
20 x 34 x 4	A	•	
20 x 34 x 6	A	•	
20 x 34 x 7	A	•	
20 x 34 x 7	AS	•	
20 x 35 x 10	A	•	•
20 x 35 x 10	AS	•	
20 x 35 x 5	A	•	
20 x 35 x 5	AS	•	
20 x 35 x 5.5	A	•	
20 x 35 x 6	A	•	•
20 x 35 x 6	AS	•	•
20 x 35 x 6	ASP	•	•
20 x 35 x 7	A	•	•
20 x 35 x 7	AS	•	•
20 x 35 x 7	ASP	•	•
20 x 35 x 8	A	•	
20 x 35 x 8	AS	•	•
20 x 36 x 7	AS	•	•
20 x 37 x 10	AS	•	
20 x 37 x 6	AS	•	•
20 x 37 x 7	A	•	
20 x 37 x 7	AS	•	•

DIMENSIONI | DIMENSIONS

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
20 x 37 x 8	A	•	•
20 x 37 x 8	AS	•	•
20 x 38 x 10	A	•	
20 x 38 x 10	AS	•	
20 x 38 x 6	A	•	•
20 x 38 x 7	A	•	•
20 x 38 x 7	AS	•	
20 x 38 x 8	A	•	•
20 x 38 x 8	AS	•	
20 x 39 x 6	AS	•	
20 x 40 x 10	A	•	•
20 x 40 x 10	AS	•	•
20 x 40 x 11	AS	•	
20 x 40 x 4	A	•	
20 x 40 x 5	A	•	
20 x 40 x 6	A	•	
20 x 40 x 6	AS	•	•
20 x 40 x 7	A	•	
20 x 40 x 7	AS	•	•
20 x 40 x 7	ASP	•	•
20 x 42 x 10	A	•	
20 x 42 x 10	A	•	•
20 x 42 x 10	AS	•	•
20 x 42 x 6	A	•	
20 x 42 x 6	AS	•	
20 x 42 x 7	A	•	•
20 x 42 x 7	AS	•	•
20 x 42 x 7	ASP	•	
20 x 42 x 8	AS	•	•
20 x 45 x 10	A	•	
20 x 45 x 7	AS	•	
20 x 47 x 10	A	•	
20 x 47 x 10	AS	•	•
20 x 47 x 5	A	•	
20 x 47 x 5	AS	•	
20 x 47 x 5	ASP	•	
20 x 47 x 7	A	•	•
20 x 47 x 7	AS	•	•
20 x 47 x 8	A	•	
20 x 47 x 8	AS	•	
20 x 48 x 7	AS	•	
20 x 52 x 10	A	•	•
20 x 52 x 10	AS	•	•
20 x 52 x 6	A	•	
20 x 52 x 6	A	•	
20 x 52 x 6.5	ASP	•	
20 x 52 x 7	A	•	•
20 x 52 x 7	AS	•	•
20 x 52 x 8	A	•	
20 x 52 x 8	AS	•	
20 x 62 x 6	AS	•	
20 x 62 x 7	AS	•	
20 x 72 x 10	A	•	
21 x 30 x 6.5	A	•	
21 x 32 x 8	A	•	
21 x 33 x 8	AS	•	
21 x 35 x 10	A	•	
21 x 35 x 10	AS	•	
21 x 35 x 7	AS	•	
21 x 36 x 7	A	•	
21 x 40 x 7	A	•	
21 x 40 x 7	AS	•	
22 x 28 x 4	AS	•	
22 x 28 x 8	AS	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
22 x 29 x 4	AS	•	
22 x 30 x 4	AS	•	•
22 x 30 x 4	A		•
22 x 30 x 7	A	•	
22 x 30 x 7	AS	•	•
22 x 30 x 8	AS	•	
22 x 32 x 10	A	•	
22 x 32 x 4	A	•	
22 x 32 x 5	A	•	
22 x 32 x 5	AS	•	
22 x 32 x 5.5	A	•	
22 x 32 x 6	AS	•	•
22 x 32 x 6	ASP	•	
22 x 32 x 7	A	•	•
22 x 32 x 7	AS	•	•
22 x 32 x 7	ASP	•	•
22 x 33 x 7	A	•	
22 x 34 x 7	A	•	
22 x 34 x 7	AS	•	
22 x 35 x 10	AS	•	
22 x 35 x 10	A		•
22 x 35 x 5	AS	•	
22 x 35 x 5.5	A	•	
22 x 35 x 6	A	•	
22 x 35 x 6	AS	•	•
22 x 35 x 6	ASP	•	•
22 x 35 x 7	A	•	•
22 x 35 x 7	AS	•	•
22 x 35 x 7	ASP	•	
22 x 35 x 8	A	•	•
22 x 35 x 8	AS	•	
22 x 36 x 10	AS	•	
22 x 36 x 6	A	•	
22 x 36 x 7	AS	•	•
22 x 36 x 7	ASP	•	
22 x 36 x 8	AS	•	
22 x 37 x 7	A	•	
22 x 37 x 7	AS	•	
22 x 38 x 10	AS	•	
22 x 38 x 6	ASP	•	
22 x 38 x 7	A	•	•
22 x 38 x 7	AS	•	•
22 x 38 x 8	AS	•	
22 x 40 x 10	A	•	•
22 x 40 x 10	AS	•	•
22 x 40 x 5	A	•	
22 x 40 x 5	AS	•	
22 x 40 x 6	A	•	
22 x 40 x 6	ASP	•	•
22 x 40 x 7	A	•	•
22 x 40 x 7	AS	•	•
22 x 40 x 8	A	•	
22 x 40 x 8	AS	•	•
22 x 40 x 8.5	AS	•	
22 x 41 x 6	AS	•	
22 x 42 x 10	A	•	•
22 x 42 x 10	AS	•	•
22 x 42 x 10	ASP	•	
22 x 42 x 11	AS	•	
22 x 42 x 11	ASP	•	
22 x 42 x 12	AS	•	
22 x 42 x 7	A	•	•
22 x 42 x 7	AS	•	•
22 x 43 x 8	A	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
22 x 44 x 7	A	•	
22 x 44 x 7	AS	•	
22 x 45 x 7	A	•	
22 x 45 x 7	AS	•	
22 x 45 x 8	AS	•	
22 x 47 x 10	A	•	
22 x 47 x 10	AS	•	
22 x 47 x 7	A	•	•
22 x 47 x 7	AS	•	•
22 x 47 x 7	ASP	•	
22 x 48 x 7	AS	•	
22 x 50 x 10	AS	•	
22 x 52 x 10	A	•	
22 x 52 x 10	AS	•	
22 x 52 x 8	A	•	
22 x 52 x 8	AS	•	
22 x 56 x 7	AS	•	
22 x 62 x 12	A	•	
22 x 62 x 12	AS	•	
22 x 62 x 7	A	•	
22 x 62 x 7	AS	•	
23 x 35 x 6	AS	•	
23 x 35 x 7	AS	•	
23 x 36 x 6	AS	•	
23 x 37 x 6	A	•	
23 x 38 x 7	A	•	
23 x 40 x 10	A	•	•
23 x 40 x 10	AS	•	
23 x 40 x 5	AS	•	
23 x 40 x 6	A		•
23 x 40 x 6	AS		•
23 x 40 x 7	AS	•	
23 x 40 x 8	A	•	
23 x 40 x 8	AS	•	
23 x 42 x 10	A	•	
23 x 42 x 10	AS	•	
23 x 47 x 10	A	•	
23 x 47 x 10	AS	•	
23 x 52 x 10	A	•	
24 x 32 x 4	A	•	•
24 x 32 x 4	AS	•	•
24 x 32 x 7	AS	•	•
24 x 32 x 7	A		•
24 x 33 x 5	ASP	•	
24 x 33 x 7	AS	•	
24 x 34 x 5.5	A	•	
24 x 34 x 7	A	•	
24 x 34 x 7	AS	•	
24 x 35 x 6	A	•	•
24 x 35 x 6	AS	•	
24 x 35 x 7	A	•	•
24 x 35 x 7	AS	•	•
24 x 35 x 8	AS	•	
24 x 36 x 7	A	•	•
24 x 36 x 7	AS	•	•
24 x 37 x 7	A	•	•
24 x 37 x 7	AS	•	•
24 x 38 x 10	A		•
24 x 38 x 7	AS		•
24 x 40 x 10	A	•	
24 x 40 x 10	AS	•	
24 x 40 x 5	A	•	
24 x 40 x 6	ASP		•
24 x 40 x 7	A	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
24 x 40 x 7	AS	•	•
24 x 40 x 7	ASP	•	
24 x 40 x 8	A	•	
24 x 40 x 8	AS	•	
24 x 42 x 10	A	•	
24 x 42 x 10	AS	•	
24 x 42 x 6	ASP	•	
24 x 42 x 7	A	•	
24 x 42 x 7	AS		•
24 x 42 x 8	A	•	•
24 x 42 x 8	AS	•	•
24 x 42 x 8	A	•	
24 x 43 x 7	AS	•	
24 x 44 x 7	A	•	•
24 x 45 x 10	A	•	
24 x 45 x 7	AS		•
24 x 45 x 8	AS	•	
24 x 46 x 10	AS	•	
24 x 47 x 10	A	•	
24 x 47 x 7	A	•	
24 x 47 x 7	AS	•	•
24 x 49 x 12	AS	•	
24 x 50 x 10	A	•	
24 x 52 x 10	A	•	•
24 x 52 x 10	AS	•	•
24 x 52 x 7	AS	•	•
24 x 78 x 8	AS	•	
25 x 32 x 4	A	•	
25 x 32 x 4	AS		•
25 x 32 x 6	A	•	•
25 x 32 x 6	AS	•	•
25 x 32 x 7	A	•	
25 x 32 x 7	AS	•	•
25 x 33 x 4	A	•	
25 x 33 x 4	AS		•
25 x 33 x 6	A	•	
25 x 33 x 6	AS	•	
25 x 33 x 6	ASP		•
25 x 34 x 4	AS	•	
25 x 34 x 5	AS	•	
25 x 34 x 7	AS	•	
25 x 35 x 10	A	•	
25 x 35 x 10	AS	•	
25 x 35 x 4	A	•	
25 x 35 x 5	A	•	•
25 x 35 x 5	AS	•	
25 x 35 x 6	A	•	
25 x 35 x 6	AS	•	•
25 x 35 x 6	ASP	•	•
25 x 35 x 7	A	•	•
25 x 35 x 7	AS	•	•
25 x 35 x 8	A	•	•
25 x 36 x 10	A	•	
25 x 36 x 6	AS	•	•
25 x 36 x 6	ASP		•
25 x 36 x 7	A	•	•
25 x 36 x 7	AS	•	
25 x 37 x 5	A	•	•
25 x 37 x 5	AS	•	•
25 x 37 x 6	AS	•	•
25 x 37 x 6	ASP	•	
25 x 37 x 7	AS	•	•
25 x 37 x 7	A	•	•
25 x 37 x 8	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
25 x 38 x 10	A	•	
25 x 38 x 10	AS	•	
25 x 38 x 7	A	•	•
25 x 38 x 7	AS	•	•
25 x 38 x 8	A	•	
25 x 38 x 8	AS	•	
25 x 40 x 10	A	•	•
25 x 40 x 10	AS	•	•
25 x 40 x 5	A	•	•
25 x 40 x 5	AS	•	
25 x 40 x 6	AS	•	•
25 x 40 x 7	A	•	
25 x 40 x 7	AS	•	
25 x 40 x 7	A	•	•
25 x 40 x 7	ASP	•	•
25 x 40 x 7	AS	•	•
25 x 40 x 8	A	•	
25 x 40 x 8	AS	•	•
25 x 41 x 6	A	•	•
25 x 41 x 6	AS	•	
25 x 41 x 8	AS	•	
25 x 41.5 x 6	AS	•	
25 x 42 x 10	A	•	•
25 x 42 x 10	AS	•	•
25 x 42 x 6	A	•	•
25 x 42 x 6	AS	•	•
25 x 42 x 6	ASP	•	
25 x 42 x 7	A	•	•
25 x 42 x 7	AS	•	•
25 x 42 x 7	AS	•	
25 x 42 x 8	A	•	
25 x 42 x 8	AS	•	•
25 x 42 x 8.5	A	•	
25 x 42 x 8.5	AS	•	
25 x 42 x 8.5	AS	•	•
25 x 42 x 8.5	A	•	
25 x 42 x 9	A	•	
25 x 43 x 10	A	•	•
25 x 43 x 10	AS	•	
25 x 43 x 9	A	•	
25 x 43 x 9	AS	•	
25 x 44 x 7	A	•	
25 x 44 x 7	AS	•	•
25 x 45 x 10	A	•	
25 x 45 x 10	AS	•	•
25 x 45 x 11	ASP	•	
25 x 45 x 5	AS	•	
25 x 45 x 7	A	•	
25 x 45 x 7	AS	•	•
25 x 45 x 7	ASP	•	
25 x 45 x 8	AS	•	
25 x 46 x 7	A	•	•
25 x 46 x 7	AS	•	
25 x 47 x 10	A	•	•
25 x 47 x 10	AS	•	•
25 x 47 x 5	A	•	
25 x 47 x 6	AS	•	
25 x 47 x 7	A	•	•
25 x 47 x 7	AS	•	•
25 x 47 x 7	ASP	•	•
25 x 47 x 8	A	•	•
25 x 47 x 8	AS	•	
25 x 48 x 8	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
25 x 50 x 10	A	•	•
25 x 50 x 10	AS	•	•
25 x 50 x 12	AS	•	
25 x 50 x 7	A	•	•
25 x 50 x 7	AS	•	
25 x 50 x 8	AS	•	
25 x 52 x 10	A	•	•
25 x 52 x 10	AS	•	•
25 x 52 x 5	A	•	
25 x 52 x 5	AS	•	•
25 x 52 x 7	A	•	•
25 x 52 x 7	AS	•	•
25 x 52 x 7	ASP	•	
25 x 52 x 8	A	•	•
25 x 52 x 8	AS	•	
25 x 55 x 10	AS	•	•
25 x 55 x 7	A	•	
25 x 55 x 8	AS	•	
25 x 58 x 10	A	•	
25 x 58 x 10	AS	•	
25 x 60 x 10	AS	•	
25 x 60 x 7	A	•	
25 x 62 x 10	A	•	•
25 x 62 x 10	AS	•	•
25 x 62 x 5	A	•	
25 x 62 x 6	A	•	
25 x 62 x 6	A	•	
25 x 62 x 6	AS	•	
25 x 62 x 7	A	•	•
25 x 62 x 7	AS	•	•
25 x 62 x 8	A	•	
25 x 62 x 8	AS	•	•
25 x 62 x 8	AS	•	•
25 x 65 x 10	AS	•	
25 x 65 x 7	AS	•	
25 x 70 x 10	AS	•	
25 x 72 x 7	AS	•	
25 x 72 x 8	AS	•	
26 x 35 x 7	A	•	
26 x 35 x 7	AS	•	•
26 x 36 x 7	A	•	
26 x 36 x 7	AS	•	•
26 x 37 x 10	A	•	
26 x 37 x 7	A	•	•
26 x 37 x 7	AS	•	•
26 x 37 x 7	ASP	•	
26 x 37 x 8	AS	•	
26 x 38 x 5	AS	•	
26 x 38 x 7	AS	•	
26 x 38 x 8	AS	•	
26 x 40 x 10	A	•	
26 x 40 x 5	AS	•	
26 x 40 x 6	A	•	
26 x 40 x 6	AS	•	•
26 x 40 x 7	A	•	
26 x 40 x 7	AS	•	•
26 x 40 x 8	AS	•	•
26 x 42 x 7	A	•	
26 x 42 x 7	AS	•	•
26 x 42 x 8	AS	•	
26 x 47 x 10	A	•	
26 x 47 x 7	A	•	•
26 x 47 x 7	AS	•	•
26 x 47 x 9	AS	•	•
26 x 50 x 10	A	•	

DIMENSIONI | DIMENSIONS

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
26 x 52 x 10	AS	•	•
26 x 52 x 7	A	•	
26 x 52 x 7	AS	•	
26 x 52 x 8	A	•	
26 x 52 x 8	AS	•	
27 x 35 x 7	A	•	
27 x 35 x 7	AS		•
27 x 36 x 6	AS	•	
27 x 37 x 4	AS	•	
27 x 37 x 7	A	•	
27 x 37 x 7	AS	•	•
27 x 38 x 6	AS	•	
27 x 38 x 7	A	•	
27 x 40 x 10	A	•	
27 x 40 x 6	AS	•	
27 x 40 x 7	AS	•	
27 x 40 x 8	AS	•	
27 x 41 x 10	A	•	•
27 x 41 x 10	AS	•	•
27 x 42 x 10	A	•	
27 x 42 x 10	AS	•	•
27 x 42 x 7	A	•	
27 x 42 x 7	ASP	•	
27 x 43 x 8	AS	•	
27 x 43 x 9	A	•	
27 x 45 x 10	A	•	
27 x 45 x 8	A	•	
27 x 45 x 8	AS	•	
27 x 47 x 10	A	•	•
27 x 47 x 10	AS		•
27 x 47 x 5	A		•
27 x 47 x 6	A	•	•
27 x 47 x 6	AS	•	
27 x 47 x 7	A	•	
27 x 47 x 7	AS	•	•
27 x 47 x 8	A		•
27 x 50 x 10	A	•	
27 x 51 x 10	AS	•	
27 x 52 x 10	A	•	
27 x 52 x 10	AS	•	
27 x 52 x 5	AS	•	
27 x 52 x 7	AS	•	
27 x 52 x 8	A	•	
27 x 52 x 8	AS	•	
27 x 53 x 7	A	•	
27 x 53 x 7	AS	•	
27 x 55 x 7	AS	•	
27 x 55 x 8	AS	•	
28 x 35 x 4	AS	•	
28 x 35 x 5	AS	•	
28 x 35 x 7	A	•	
28 x 35 x 7	AS	•	
28 x 36 x 5	AS	•	
28 x 36 x 7	AS	•	
28 x 37 x 4	A	•	
28 x 37 x 6	AS		•
28 x 37 x 7	AS	•	
28 x 38 x 5	A	•	
28 x 38 x 5	AS		•
28 x 38 x 6	A	•	
28 x 38 x 7	A	•	•
28 x 38 x 7	AS	•	•
28 x 38 x 7	ASP	•	

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
28 x 38 x 8	AS	•	
28 x 40 x 10	A	•	•
28 x 40 x 5	A	•	
28 x 40 x 5	AS	•	
28 x 40 x 6	ASP	•	•
28 x 40 x 7	A	•	•
28 x 40 x 7	AS	•	•
28 x 40 x 7	ASP	•	
28 x 40 x 8	A	•	
28 x 40 x 8	ASP	•	
28 x 40 x 8	A	•	
28 x 42 x 10	A	•	•
28 x 42 x 10	AS	•	
28 x 42 x 5	A	•	
28 x 42 x 6	AS	•	
28 x 42 x 6	ASP	•	
28 x 42 x 7	A	•	•
28 x 42 x 7	AS	•	•
28 x 42 x 8	A	•	
28 x 43 x 10	A	•	
28 x 43 x 10	AS	•	•
28 x 43 x 7	A	•	
28 x 43 x 7	AS		•
28 x 43 x 8	AS	•	
28 x 44 x 10	A	•	
28 x 44 x 7	AS	•	
28 x 45 x 10	A	•	
28 x 45 x 10	AS	•	
28 x 45 x 7	A	•	•
28 x 45 x 7	AS	•	
28 x 45 x 8	A	•	•
28 x 45 x 8	AS	•	
28 x 45 x 9	A	•	•
28 x 45 x 9.5	A	•	
28 x 47 x 10	A	•	•
28 x 47 x 10	AS	•	•
28 x 47 x 5	AS		•
28 x 47 x 7	A	•	•
28 x 47 x 7	AS	•	•
28 x 47 x 8	A		•
28 x 48 x 10	A	•	
28 x 48 x 6	A	•	
28 x 48 x 6	AS	•	
28 x 48 x 7	AS		•
28 x 48 x 8	AS	•	
28 x 50 x 10	A	•	•
28 x 50 x 10	AS	•	
28 x 52 x 10	A	•	•
28 x 52 x 10	AS	•	•
28 x 52 x 5	A	•	
28 x 52 x 7	A	•	•
28 x 52 x 7	AS	•	•
28 x 52 x 8	A	•	
28 x 55 x 7	AS	•	
28 x 57 x 12	A	•	
28 x 58 x 10	AS	•	
28 x 58 x 6	AS	•	
28 x 58 x 8	AS	•	
28 x 62 x 10	A	•	
28 x 62 x 10	AS	•	
28 x 62 x 2	A	•	
28 x 62 x 7	AS	•	
28 x 72 x 7	AS		•
28 x 40 x 7	A	•	

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
29 x 40 x 7	AS		•
29 x 41 x 5	A	•	
29 x 41 x 6	A	•	
29 x 42 x 7	A	•	•
29 x 43 x 7	A	•	
29 x 43 x 8	AS	•	
29 x 45 x 9	AS	•	
29 x 45 x 9.5	A	•	
29 x 46 x 10	AS	•	
29 x 47 x 10	A	•	
29 x 50 x 10	A	•	•
29 x 50 x 10	AS	•	
29 x 50 x 8	AS	•	
29 x 55 x 9	A	•	
30 x 36 x 5	A	•	•
30 x 37 x 4	A	•	
30 x 37 x 8	A	•	
30 x 38 x 10	A	•	
30 x 38 x 6	A	•	
30 x 38 x 7	A	•	
30 x 38 x 8	AS	•	
30 x 39 x 7	A	•	
30 x 40 x 10	A	•	
30 x 40 x 10	AS	•	
30 x 40 x 4	A	•	
30 x 40 x 4	AS	•	
30 x 40 x 5	A	•	•
30 x 40 x 5	AS	•	
30 x 40 x 6	ASP	•	
30 x 40 x 7	A	•	
30 x 40 x 7	AS	•	
30 x 40 x 7	A	•	•
30 x 40 x 7	ASP	•	•
30 x 40 x 7	A	•	•
30 x 40 x 8	A	•	
30 x 40 x 9	A	•	
30 x 41 x 7	AS	•	
30 x 42 x 10	A	•	
30 x 42 x 10	AS	•	
30 x 42 x 2	AS	•	
30 x 42 x 4	AS	•	
30 x 42 x 5	A	•	
30 x 42 x 5	AS	•	•
30 x 42 x 6	A	•	
30 x 42 x 6	AS	•	
30 x 42 x 6	ASP	•	•
30 x 42 x 7	A	•	•
30 x 42 x 7	AS	•	•
30 x 42 x 7	ASP	•	
30 x 42 x 8	AS	•	
30 x 43 x 8	A	•	
30 x 43 x 8	AS	•	
30 x 44 x 10	A	•	•
30 x 44 x 10	AS	•	•
30 x 44 x 7	A	•	•
30 x 44 x 7	AS	•	•
30 x 44 x 7	ASP	•	
30 x 44 x 8	A	•	•
30 x 44 x 8	AS	•	•
30 x 44 x 9	AS	•	
30 x 45 x 10	A	•	
30 x 45 x 10	AS	•	
30 x 45 x 10	A	•	•
30 x 45 x 5	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
30 x 45 x 5	AS	•	
30 x 45 x 6	AS	•	
30 x 45 x 6	A		•
30 x 45 x 7	A	•	•
30 x 45 x 7	AS	•	•
30 x 45 x 7	ASP	•	•
30 x 45 x 8	A	•	•
30 x 45 x 8	AS	•	•
30 x 46 x 10	A	•	
30 x 46 x 7	AS	•	•
30 x 46 x 8	AS	•	
30 x 47 x 10	A	•	•
30 x 47 x 10	AS	•	•
30 x 47 x 4	AS	•	
30 x 47 x 5	A	•	
30 x 47 x 5	AS	•	
30 x 47 x 6	A	•	
30 x 47 x 6	AS	•	•
30 x 47 x 7	A	•	•
30 x 47 x 7	AS	•	•
30 x 47 x 7	ASP	•	
30 x 47 x 8	A	•	•
30 x 47 x 8	AS	•	•
30 x 48 x 7	AS	•	•
30 x 48 x 8	A	•	
30 x 48 x 8	AS	•	•
30 x 49 x 7	AS	•	
30 x 50 x 10	A	•	•
30 x 50 x 10	AS	•	•
30 x 50 x 10	ASP	•	
30 x 50 x 11	AS	•	
30 x 50 x 12	A	•	
30 x 50 x 12	AS	•	
30 x 50 x 5	A	•	
30 x 50 x 7	A	•	•
30 x 50 x 7	AS	•	•
30 x 50 x 7	ASP	•	•
30 x 50 x 8	A	•	•
30 x 50 x 8	AS	•	•
30 x 52 x 10	A	•	•
30 x 52 x 10	AS	•	•
30 x 52 x 14	AS	•	
30 x 52 x 15	AS	•	
30 x 52 x 4	A	•	
30 x 52 x 5	A	•	•
30 x 52 x 6	A	•	•
30 x 52 x 7	A	•	
30 x 52 x 7	A	•	•
30 x 52 x 7	AS	•	•
30 x 52 x 7	ASP	•	•
30 x 52 x 8	AS	•	•
30 x 52 x 8	A	•	•
30 x 54 x 10	AS	•	
30 x 55 x 10	A	•	•
30 x 55 x 10	AS	•	•
30 x 55 x 12	AS	•	•
30 x 55 x 7	A	•	•
30 x 55 x 7	AS	•	•
30 x 55 x 7	ASP	•	
30 x 55 x 8	AS	•	
30 x 56 x 10	A	•	•
30 x 56 x 10	AS	•	•
30 x 56 x 12	A	•	
30 x 56 x 7	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
30 x 57 x 7	AS	•	
30 x 58 x 10	A	•	
30 x 58 x 10	A	•	
30 x 60 x 10	A	•	•
30 x 60 x 10	AS	•	
30 x 60 x 7	AS	•	•
30 x 60 x 8	AS		•
30 x 62 x 10	A	•	•
30 x 62 x 10	AS	•	•
30 x 62 x 7	A	•	•
30 x 62 x 7	AS	•	•
30 x 62 x 7	ASP	•	•
30 x 62 x 8	AS	•	•
30 x 62 x 8	A		•
30 x 62 x 9	AS	•	
30 x 65 x 10	AS	•	
30 x 65 x 8	A	•	
30 x 65 x 8	AS	•	
30 x 65 x 8	A	•	
30 x 68 x 10	A	•	
30 x 68 x 10	AS	•	
30 x 68 x 7	A	•	
30 x 68 x 7	AS	•	
30 x 70 x 10	A	•	
30 x 70 x 10	AS	•	
30 x 70 x 7	AS	•	
30 x 72 x 10	A	•	•
30 x 72 x 10	AS	•	•
30 x 72 x 6	AS	•	
30 x 72 x 7	AS		•
30 x 72 x 8	AS	•	•
30 x 75 x 9	AS	•	
30 x 80 x 10	AS	•	
30 x 90 x 7	AS	•	
31 x 45 x 7	AS	•	
31 x 46 x 6	AS	•	
31 x 47 x 10	A	•	
31 x 47 x 7	A	•	•
31 x 47 x 7	AS		•
31 x 52 x 7	A	•	
31 x 52 x 7	AS	•	
31 x 52 x 9	A	•	
31 x 62 x 4	A	•	
31 x 62 x 4	AS	•	
32 x 40 x 5	A	•	
32 x 40 x 7	A	•	
32 x 40 x 7	AS	•	•
32 x 42 x 10	AS	•	
32 x 42 x 4	A	•	
32 x 42 x 5	A	•	
32 x 42 x 5	AS	•	
32 x 42 x 6	ASP	•	
32 x 42 x 6	AS		•
32 x 42 x 7	A	•	•
32 x 42 x 7	AS	•	•
32 x 43 x 7	AS	•	
32 x 44 x 10	AS	•	
32 x 44 x 6	AS	•	
32 x 44 x 7	AS	•	
32 x 44 x 7	ASP	•	
32 x 44 x 8	AS	•	
32 x 44 x 8	ASP	•	
32 x 45 x 10	A	•	•
32 x 45 x 10	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
32 x 45 x 5	AS		•
32 x 45 x 6	A	•	
32 x 45 x 6	AS	•	
32 x 45 x 7	A	•	•
32 x 45 x 7	AS	•	•
32 x 45 x 7	ASP	•	
32 x 45 x 8	A	•	•
32 x 45 x 8	AS	•	•
32 x 46 x 7	AS	•	•
32 x 47 x 10	A	•	
32 x 47 x 10	AS	•	•
32 x 47 x 6	A	•	•
32 x 47 x 6	ASP		•
32 x 47 x 7	A	•	•
32 x 47 x 7	AS	•	•
32 x 47 x 7	ASP	•	
32 x 47 x 8	AS	•	
32 x 47 x 9	AS	•	
32 x 48 x 7	A	•	
32 x 48 x 7	AS	•	
32 x 48 x 8	A	•	•
32 x 48 x 8	AS		•
32 x 50 x 10	A	•	
32 x 50 x 10	AS	•	•
32 x 50 x 12	AS	•	
32 x 50 x 7	A	•	
32 x 50 x 7	AS	•	•
32 x 50 x 8	A	•	•
32 x 50 x 8	AS	•	•
32 x 52 x 10	A	•	•
32 x 52 x 10	AS	•	•
32 x 52 x 12	A	•	
32 x 52 x 5	A	•	
32 x 52 x 5	AS	•	
32 x 52 x 7	A	•	•
32 x 52 x 7	AS	•	•
32 x 52 x 8	AS	•	
32 x 54 x 10	A	•	
32 x 54 x 7	AS	•	•
32 x 55 x 10	A	•	
32 x 55 x 10	AS	•	•
32 x 55 x 7	AS	•	•
32 x 55 x 8	AS	•	•
32 x 55 x 9	ASP	•	
32 x 56 x 10	A	•	•
32 x 56 x 10	AS	•	
32 x 57 x 7.5	AS	•	
32 x 58 x 10	AS	•	
32 x 60 x 10	AS	•	
32 x 60 x 8	A	•	
32 x 62 x 10	A	•	•
32 x 62 x 10	AS	•	•
32 x 62 x 7	AS	•	
32 x 62 x 8	A	•	•
32 x 62 x 8	AS		•
32 x 64 x 10	AS	•	
32 x 65 x 10	AS	•	
32 x 65 x 13	A	•	
32 x 66 x 10	A	•	
32 x 70 x 8	A	•	•
32 x 72 x 10	A	•	
32 x 72 x 10	AS	•	
32 x 72 x 12	AS	•	
33 x 43 x 7	AS	•	

DIMENSIONI | DIMENSIONS

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
33 x 45 x 10	AS	•	
33 x 45 x 7	A	•	•
33 x 45 x 7	AS	•	•
33 x 46 x 10	AS	•	
33 x 47 x 11	A	•	
33 x 47 x 7	A	•	
33 x 50 x 10	A	•	
33 x 50 x 10	AS	•	•
33 x 50 x 6	A	•	
33 x 50 x 6	AS	•	•
33 x 50 x 6	AS	•	•
33 x 50 x 7	A	•	•
33 x 50 x 7	AS	•	
33 x 50 x 8	A	•	•
33 x 52 x 10	AS	•	
33 x 52 x 6	A	•	•
33 x 52 x 6	AS	•	•
33 x 52 x 8	A		•
33 x 52 x 8.5	A	•	
33 x 55 x 10	A	•	
33 x 55 x 10	AS	•	
33 x 55 x 8	AS	•	
33 x 56 x 12	AS	•	
33 x 66 x 12	A	•	
33 x 72 x 10	AS	•	
34 x 43 x 7	AS	•	
34 x 44 x 10	AS	•	
34 x 44 x 7	A	•	•
34 x 44 x 7	AS	•	
34 x 45 x 7	AS	•	•
34 x 46 x 10	A	•	
34 x 46 x 7	AS	•	
34 x 46 x 8	A	•	
34 x 46 x 8	AS	•	•
34 x 47 x 7	AS	•	
34 x 47 x 9	AS		•
34 x 48 x 7	AS	•	
34 x 48 x 8	AS	•	
34 x 49 x 8	A	•	•
34 x 50 x 10	A	•	•
34 x 50 x 10	AS	•	•
34 x 50 x 7	AS	•	
34 x 52 x 10	AS	•	
34 x 52 x 6	A	•	
34 x 52 x 7	AS	•	
34 x 52 x 8	A	•	•
34 x 52 x 8	AS	•	
34 x 54 x 10	A	•	
34 x 54 x 10	AS	•	
34 x 54 x 8	AS	•	
34 x 55 x 10	A	•	•
34 x 55 x 10	AS	•	•
34 x 55 x 9	A	•	
34 x 55 x 9	AS	•	
34 x 56 x 10	AS	•	
34 x 58 x 10	A	•	
34 x 58 x 13	A	•	•
34 x 58 x 8	A	•	
34 x 58 x 8	AS	•	
34 x 62 x 10	A	•	•
34 x 62 x 10	AS	•	
34 x 62 x 14	AS	•	
34 x 62 x 7	A	•	
34 x 62 x 7	AS	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
34 x 62 x 8	AS	•	
34 x 72 x 10	A	•	
35 x 100 x 12	ASP	•	
35 x 42 x 10	AS	•	
35 x 42 x 4	A	•	
35 x 42 x 4	AS	•	•
35 x 42 x 7	A	•	
35 x 42 x 7	AS	•	•
35 x 42 x 8	A	•	
35 x 44 x 7	A	•	•
35 x 44 x 7	AS	•	•
35 x 45 x 10	A	•	
35 x 45 x 10	AS	•	•
35 x 45 x 4	A	•	
35 x 45 x 5	A	•	
35 x 45 x 7	A	•	•
35 x 45 x 7	AS	•	•
35 x 46 x 7	A	•	
35 x 47 x 10	A	•	•
35 x 47 x 10	AS	•	•
35 x 47 x 10	ASP	•	
35 x 47 x 4.5	A	•	
35 x 47 x 6	A	•	•
35 x 47 x 6	AS	•	•
35 x 47 x 6	ASP	•	•
35 x 47 x 7	AS	•	
35 x 47 x 7	A	•	
35 x 47 x 7	AS	•	•
35 x 47 x 7	ASP	•	•
35 x 47 x 7	AS	•	•
35 x 48 x 10	AS	•	•
35 x 48 x 11	AS	•	
35 x 48 x 5	ASP	•	•
35 x 48 x 6	AS	•	
35 x 48 x 7	AS	•	•
35 x 48 x 7	A		•
35 x 48 x 8	A	•	
35 x 48 x 8	AS	•	•
35 x 48 x 9	AS	•	
35 x 49 x 8	A	•	
35 x 50 x 10	A	•	•
35 x 50 x 10	AS	•	•
35 x 50 x 12	A	•	
35 x 50 x 12	AS	•	
35 x 50 x 5	AS	•	
35 x 50 x 7	A	•	•
35 x 50 x 7	AS	•	•
35 x 50 x 7	ASP	•	
35 x 50 x 8	A	•	•
35 x 50 x 8	AS	•	•
35 x 52 x 10	A	•	•
35 x 52 x 10	AS	•	•
35 x 52 x 12	A	•	
35 x 52 x 12	AS	•	
35 x 52 x 5	AS	•	•
35 x 52 x 6	AS	•	•
35 x 52 x 6	ASP	•	•
35 x 52 x 6	A		•
35 x 52 x 7	A	•	•
35 x 52 x 7	AS	•	•
35 x 52 x 7	ASP	•	
35 x 52 x 8	A	•	•
35 x 52 x 8	AS	•	•
35 x 52 x 8.8	A	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
35 x 53 x 7	A	•	
35 x 53 x 8	A	•	
35 x 54 x 10	A	•	•
35 x 54 x 10	AS	•	
35 x 54 x 6	ASP	•	
35 x 54 x 7	A		•
35 x 54 x 7	AS		•
35 x 54 x 8	A	•	
35 x 54 x 8	AS	•	•
35 x 55 x 10	A	•	•
35 x 55 x 10	AS	•	•
35 x 55 x 11	AS	•	•
35 x 55 x 11	ASP	•	•
35 x 55 x 12	AS	•	
35 x 55 x 7	A	•	
35 x 55 x 7	AS	•	•
35 x 55 x 8	A	•	•
35 x 55 x 8	AS	•	•
35 x 55 x 9	AS	•	
35 x 56 x 10	A	•	•
35 x 56 x 10	AS	•	•
35 x 56 x 10	ASP		•
35 x 56 x 12	A	•	
35 x 56 x 12	AS	•	
35 x 56 x 7	AS	•	•
35 x 56 x 8	A	•	
35 x 56 x 8	AS	•	•
35 x 57 x 10	A	•	
35 x 57 x 10	AS	•	•
35 x 57 x 8	A	•	
35 x 57 x 8	AS	•	
35 x 57 x 9	AS	•	•
35 x 58 x 10	A	•	•
35 x 58 x 10	AS	•	
35 x 58 x 7	A	•	
35 x 58 x 7	AS	•	
35 x 58 x 8	A	•	
35 x 58 x 9	A	•	
35 x 60 x 10	A	•	•
35 x 60 x 10	AS	•	•
35 x 60 x 10	AS	•	
35 x 60 x 12	A	•	
35 x 60 x 7	A	•	
35 x 60 x 7	AS	•	
35 x 60 x 8	AS	•	•
35 x 62 x 10	A	•	•
35 x 62 x 10	AS	•	•
35 x 62 x 12	A	•	
35 x 62 x 12	AS	•	
35 x 62 x 5	A	•	
35 x 62 x 7	A	•	•
35 x 62 x 7	AS	•	•
35 x 62 x 8	A	•	
35 x 62 x 8	AS	•	
35 x 65 x 10	A	•	
35 x 65 x 10	AS	•	
35 x 65 x 7	AS	•	
35 x 65 x 8	AS	•	
35 x 67 x 7	A	•	
35 x 68 x 10	A	•	
35 x 68 x 10	AS	•	•
35 x 68 x 6	A	•	
35 x 68 x 8	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
35 x 70 x 10	A	•	
35 x 70 x 10	AS	•	•
35 x 70 x 8	AS	•	
35 x 72 x 10	A	•	•
35 x 72 x 10	AS	•	•
35 x 72 x 10	ASP	•	•
35 x 72 x 12	A	•	
35 x 72 x 12	AS	•	
35 x 72 x 7	A	•	•
35 x 72 x 7	AS	•	
35 x 72 x 8	A	•	
35 x 72 x 8	AS	•	•
35 x 72 x 8	A	•	
35 x 75 x 10	AS	•	
35 x 75 x 8	AS	•	
35 x 80 x 10	A	•	•
35 x 80 x 10	AS	•	•
35 x 80 x 12	A	•	
35 x 80 x 12	AS	•	
35 x 80 x 13	A	•	
35 x 80 x 13	AS	•	
35 x 80 x 7	AS	•	
35 x 80 x 8	AS	•	
35 x 90 x 10	AS	•	
36 x 47 x 7	A	•	•
36 x 47 x 7	AS	•	•
36 x 48 x 10	A	•	•
36 x 48 x 10	AS	•	
36 x 48 x 8	AS	•	
36 x 50 x 10	A	•	•
36 x 50 x 7	A	•	•
36 x 50 x 7	AS	•	•
36 x 51 x 8	AS	•	
36 x 52 x 6	AS	•	•
36 x 52 x 7	A	•	•
36 x 52 x 7	AS	•	•
36 x 54 x 10	AS	•	
36 x 54 x 7	A	•	
36 x 54 x 7.5	A	•	
36 x 55 x 10	AS	•	
36 x 55 x 7	AS	•	
36 x 56 x 10	A	•	•
36 x 56 x 10	AS	•	
36 x 57 x 10	A	•	
36 x 58 x 10	A	•	•
36 x 58 x 10	AS	•	•
36 x 60 x 10	AS	•	
36 x 60 x 15	A	•	•
36 x 62 x 10	A	•	
36 x 62 x 10	AS	•	
36 x 62 x 7	A	•	•
36 x 62 x 7	AS	•	•
36 x 65 x 10	A	•	•
36 x 65 x 10	AS	•	•
36 x 68 x 10	A	•	•
36 x 68 x 10	AS	•	•
36 x 75 x 12	A	•	
37 x 47 x 6	AS		•
37 x 47 x 7	A	•	
37 x 47 x 7	AS	•	•
37 x 48 x 6	AS	•	
37 x 50 x 10	A	•	
37 x 50 x 8	A	•	
37 x 52 x 10	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
37 x 52 x 10	AS	•	•
37 x 52 x 12	AS	•	
37 x 52 x 7	A	•	
37 x 52 x 8	A	•	
37 x 52 x 8	AS	•	
37 x 56 x 10	AS	•	
37 x 57 x 9	A	•	
37 x 57 x 9	AS	•	
37 x 60 x 10	AS	•	
37 x 62 x 10	AS	•	
37 x 62 x 11	A	•	
37 x 62 x 7	AS	•	
37 x 62 x 8	A	•	
37 x 62 x 8	AS	•	•
37 x 80 x 12	A	•	
38 x 45 x 11	AS	•	
38 x 45 x 5	A	•	
38 x 47 x 5	A	•	
38 x 47 x 7	A	•	
38 x 47 x 7	AS	•	•
38 x 48 x 8	AS	•	
38 x 50 x 10	AS	•	•
38 x 50 x 12	AS	•	
38 x 50 x 6	AS	•	
38 x 50 x 6	ASP	•	
38 x 50 x 7	A	•	•
38 x 50 x 7	AS	•	•
38 x 50 x 8	AS	•	
38 x 52 x 10	A	•	•
38 x 52 x 10	AS	•	•
38 x 52 x 7	A	•	•
38 x 52 x 7	AS	•	•
38 x 52 x 8	A	•	
38 x 52 x 8	AS	•	
38 x 54 x 10	A	•	•
38 x 54 x 10	AS	•	
38 x 54 x 5	A		•
38 x 54 x 7	AS	•	
38 x 55 x 10	A	•	
38 x 55 x 10	AS	•	
38 x 55 x 10	A	•	•
38 x 55 x 10	AS	•	•
38 x 55 x 7	A	•	•
38 x 55 x 7	AS	•	•
38 x 55 x 8	AS	•	
38 x 55 x 9	AS	•	
38 x 56 x 10	A	•	•
38 x 56 x 10	AS	•	•
38 x 56 x 7	A	•	
38 x 56 x 8	AS	•	
38 x 57 x 7	AS	•	
38 x 57 x 8	AS	•	
38 x 58 x 10	A	•	
38 x 58 x 10	AS	•	•
38 x 58 x 11	A	•	
38 x 58 x 12	AS	•	
38 x 60 x 10	A	•	•
38 x 60 x 10	AS	•	
38 x 60 x 7	A	•	•
38 x 60 x 7	AS	•	
38 x 60 x 8	AS	•	
38 x 62 x 10	A	•	•
38 x 62 x 10	AS	•	•
38 x 62 x 12	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
38 x 62 x 7	A	•	
38 x 62 x 7	AS	•	•
38 x 62 x 7	ASP	•	
38 x 62 x 8	A	•	
38 x 62 x 8	AS	•	
38 x 65 x 10	A	•	
38 x 65 x 10	AS	•	
38 x 65 x 8	A	•	•
38 x 68 x 10	AS	•	
38 x 68 x 8	AS	•	
38 x 70 x 10	A	•	
38 x 72 x 10	A	•	
38 x 72 x 10	AS	•	
38 x 74 x 10	A	•	
38 x 74 x 10	AS	•	
38 x 80 x 10	AS	•	
38 x 90 x 10	AS	•	
39 x 52 x 10	AS	•	
39 x 54 x 10	AS		•
39 x 56 x 7	AS	•	
39 x 60 x 8	AS	•	
39 x 65 x 9	A	•	
40 x 100 x 13	AS	•	
40 x 47 x 4	AS	•	•
40 x 47 x 4	A		•
40 x 48 x 5	AS	•	
40 x 50 x 10	A	•	
40 x 50 x 10	AS		•
40 x 50 x 4	A	•	
40 x 50 x 4	AS	•	
40 x 50 x 5	A	•	•
40 x 50 x 5	AS	•	
40 x 50 x 7	A	•	•
40 x 50 x 7	AS	•	•
40 x 50 x 8	A	•	•
40 x 50 x 8	AS	•	
40 x 52 x 10	AS	•	•
40 x 52 x 10	A		•
40 x 52 x 5	A	•	•
40 x 52 x 5	AS	•	•
40 x 52 x 5	ASP	•	
40 x 52 x 6	A	•	•
40 x 52 x 7	A	•	•
40 x 52 x 7	AS	•	•
40 x 52 x 7	ASP	•	•
40 x 52 x 8	A	•	•
40 x 52 x 8	AS	•	•
40 x 52 x 8.5	AS	•	
40 x 53 x 7	AS	•	
40 x 53 x 8	AS	•	
40 x 53 x 8.5	AS	•	
40 x 54 x 7	A	•	
40 x 55 x 10	A	•	•
40 x 55 x 10	AS	•	•
40 x 55 x 12	AS	•	
40 x 55 x 12	AS	•	
40 x 55 x 6	AS	•	•
40 x 55 x 6	ASP	•	•
40 x 55 x 7	A	•	•
40 x 55 x 7	AS	•	•
40 x 55 x 7	ASP	•	•
40 x 55 x 8	A	•	•
40 x 55 x 8	AS	•	•
40 x 55 x 8	ASP	•	

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Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
40 x 56 x 10	A	•	•
40 x 56 x 10	AS	•	
40 x 56 x 12	A	•	
40 x 56 x 6	AS	•	
40 x 56 x 6	ASP	•	
40 x 56 x 7	A	•	
40 x 56 x 7	AS	•	•
40 x 56 x 8	A	•	•
40 x 56 x 8	AS	•	•
40 x 56 x 8	ASP	•	
40 x 57 x 10	AS	•	
40 x 57 x 7	AS	•	
40 x 57 x 8	AS	•	
40 x 58 x 10	A	•	•
40 x 58 x 10	AS	•	•
40 x 58 x 12	A	•	
40 x 58 x 12	AS	•	
40 x 58 x 6	AS		•
40 x 58 x 6	ASP		•
40 x 58 x 7	A	•	
40 x 58 x 7	AS		•
40 x 58 x 8	A	•	•
40 x 58 x 8	AS	•	•
40 x 58 x 9	AS	•	
40 x 60 x 10	A	•	•
40 x 60 x 10	AS	•	•
40 x 60 x 10	ASP	•	
40 x 60 x 12	AS	•	
40 x 60 x 5	AS	•	
40 x 60 x 7	A	•	•
40 x 60 x 7	AS	•	•
40 x 60 x 8	AS	•	•
40 x 60 x 8	A		•
40 x 62 x 10	A	•	•
40 x 62 x 10	AS	•	•
40 x 62 x 11	AS	•	
40 x 62 x 12	A	•	•
40 x 62 x 12	AS	•	•
40 x 62 x 5	A	•	
40 x 62 x 5	AS		•
40 x 62 x 6	A	•	•
40 x 62 x 6	ASP	•	•
40 x 62 x 7	A	•	
40 x 62 x 7	A	•	•
40 x 62 x 7	AS	•	•
40 x 62 x 7	ASP	•	•
40 x 62 x 8	A	•	
40 x 62 x 8	AS	•	•
40 x 63 x 10	A	•	
40 x 65 x 10	A	•	•
40 x 65 x 10	AS	•	•
40 x 65 x 12	A	•	
40 x 65 x 6	AS	•	
40 x 65 x 7	A	•	
40 x 65 x 7	AS	•	
40 x 65 x 7	ASP	•	•
40 x 65 x 8	A	•	
40 x 65 x 8	AS	•	•
40 x 65 x 9	A	•	
40 x 66 x 11	AS	•	
40 x 67 x 10	A	•	
40 x 67 x 10	AS	•	•
40 x 67 x 7	AS	•	•
40 x 68 x 10	A	•	
40 x 68 x 10	AS	•	•

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
40 x 68 x 10	AS	•	
40 x 68 x 11	AS	•	
40 x 68 x 6	A	•	
40 x 68 x 6	AS		•
40 x 68 x 7	AS	•	•
40 x 68 x 8	A	•	
40 x 68 x 8	AS	•	•
40 x 70 x 10	A	•	•
40 x 70 x 10	AS	•	•
40 x 70 x 8	AS	•	•
40 x 72 x 10	A	•	•
40 x 72 x 10	AS	•	•
40 x 72 x 12	A	•	
40 x 72 x 12	AS	•	
40 x 72 x 7	A	•	•
40 x 72 x 7	AS	•	•
40 x 72 x 7	ASP	•	
40 x 72 x 8	A	•	
40 x 72 x 8	AS	•	•
40 x 75 x 10	AS	•	•
40 x 75 x 12	AS	•	
40 x 75 x 8	AS	•	
40 x 80 x 10	A	•	•
40 x 80 x 10	AS	•	•
40 x 80 x 10	AS	•	
40 x 80 x 12	A	•	
40 x 80 x 12	AS	•	•
40 x 80 x 13	A	•	
40 x 80 x 13	AS		•
40 x 80 x 7	AS	•	
40 x 80 x 7.5	ASP		•
40 x 80 x 8	A	•	
40 x 80 x 8	AS	•	
40 x 85 x 10	A	•	•
40 x 85 x 10	AS	•	•
40 x 90 x 10	A	•	
40 x 90 x 10	AS	•	•
40 x 90 x 12	AS	•	•
40 x 90 x 8	A	•	
40 x 90 x 8	AS	•	•
40 x 90 x 9	AS	•	
41 x 53 x 7	AS	•	
41 x 53 x 8	AS	•	
41 x 54 x 7	A	•	
41 x 54 x 7	AS	•	
41 x 56 x 7	A	•	
41 x 56 x 8	A	•	
41 x 62 x 10	A	•	
42 x 50 x 6	AS	•	
42 x 50 x 6	AS	•	
42 x 50 x 7	A	•	
42 x 52 x 10	AS	•	
42 x 52 x 4	A	•	
42 x 52 x 5	A	•	
42 x 52 x 7	AS	•	•
42 x 52 x 8	A	•	
42 x 52 x 8	AS	•	•
42 x 53 x 7	A	•	
42 x 53 x 7	AS	•	
42 x 55 x 10	A	•	
42 x 55 x 10	AS		•
42 x 55 x 7	A	•	
42 x 55 x 7	AS	•	•
42 x 55 x 8	AS	•	•

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
42 x 55 x 8	A		•
42 x 56 x 10	AS	•	
42 x 56 x 7	A	•	•
42 x 56 x 7	AS	•	•
42 x 58 x 10	A	•	•
42 x 58 x 10	AS	•	•
42 x 58 x 12	A	•	
42 x 58 x 7	AS	•	
42 x 58 x 8	AS	•	•
42 x 60 x 10	A	•	•
42 x 60 x 10	AS	•	•
42 x 60 x 12	A	•	•
42 x 60 x 12	AS	•	
42 x 60 x 7	A	•	
42 x 60 x 7	AS	•	•
42 x 60 x 8	AS	•	
42 x 62 x 10	A	•	•
42 x 62 x 10	AS	•	•
42 x 62 x 5	AS	•	
42 x 62 x 6	ASP	•	
42 x 62 x 7	A	•	•
42 x 62 x 7	AS	•	•
42 x 62 x 7	ASP	•	•
42 x 62 x 8	A	•	•
42 x 62 x 8	AS	•	•
42 x 62 x 8	ASP	•	•
42 x 64 x 10	AS	•	
42 x 65 x 10	A	•	•
42 x 65 x 10	AS	•	•
42 x 65 x 8	A	•	
42 x 65 x 8	AS	•	•
42 x 66 x 10	AS	•	
42 x 67 x 10	AS	•	
42 x 68 x 10	AS	•	
42 x 68 x 12	AS	•	
42 x 68 x 8	AS	•	
42 x 70 x 10	A	•	
42 x 70 x 10	AS	•	•
42 x 72 x 10	A	•	•
42 x 72 x 10	AS	•	•
42 x 72 x 12	AS	•	•
42 x 72 x 7	AS	•	•
42 x 72 x 8	A	•	•
42 x 72 x 8	AS	•	•
42 x 75 x 10	A	•	
42 x 75 x 10	AS	•	
42 x 75 x 12	AS	•	
42 x 75 x 13	AS	•	
42 x 80 x 10	A	•	
43 x 54 x 7	AS	•	
43 x 54 x 9	AS	•	
43 x 55 x 8	AS	•	
43 x 55 x 9	AS	•	
43 x 55 x 9.5	AS	•	
43 x 60 x 10	A	•	•
43 x 60 x 10	AS	•	
43 x 62 x 10	A	•	•
43 x 62 x 10	AS		•
43 x 65 x 10	A	•	
43 x 66 x 10	A	•	
43 x 66 x 10	AS	•	•
43 x 68 x 8	AS	•	
43 x 70 x 12	A	•	•
43 x 75 x 10	A	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
43 x 75 x 10	AS	•	
43 x 80 x 10	A	•	
44 x 55 x 7	AS	•	
44 x 55 x 7	A		•
44 x 60 x 10	A	•	•
44 x 60 x 10	ASP	•	
44 x 60 x 10	AS		•
44 x 60 x 7	AS	•	•
44 x 60 x 8	A	•	
44 x 62 x 10	A	•	•
44 x 62 x 10	AS	•	•
44 x 62 x 12	AS	•	
44 x 62 x 7	AS	•	
44 x 62 x 7	AS	•	
44 x 62 x 8	AS	•	•
44 x 62 x 9	AS	•	
44 x 64 x 9	AS	•	
44 x 65 x 10	A	•	•
44 x 65 x 10	AS	•	•
44 x 67 x 10	AS	•	
44 x 70 x 10	A	•	
44 x 70 x 10	AS	•	
44 x 70 x 12	A	•	
44 x 70 x 12	AS	•	
44 x 72 x 10	A	•	
44 x 72 x 10	AS	•	•
44 x 80 x 12	A	•	
44 x 92 x 10	AS	•	
45 x 100 x 10	AS	•	•
45 x 100 x 10	A		•
45 x 100 x 12	A	•	
45 x 100 x 8	AS	•	
45 x 120 x 12	AS	•	
45 x 52 x 4	A	•	
45 x 52 x 4	AS	•	
45 x 52 x 5	AS	•	•
45 x 52 x 7	A	•	
45 x 52 x 7	AS	•	
45 x 52 x 8	A	•	
45 x 52 x 8	AS		•
45 x 53 x 8	AS	•	
45 x 55 x 10	A	•	•
45 x 55 x 10	AS	•	
45 x 55 x 5	AS		•
45 x 55 x 6	A	•	
45 x 55 x 6	AS	•	
45 x 55 x 7	A	•	•
45 x 55 x 7	AS	•	•
45 x 55 x 7	ASP	•	
45 x 55 x 8	AS	•	
45 x 56 x 10	AS	•	
45 x 56 x 7	A	•	
45 x 56 x 7	AS		•
45 x 57 x 10	AS	•	
45 x 57 x 7	A	•	
45 x 58 x 10	AS	•	
45 x 58 x 6	ASP	•	•
45 x 58 x 7	A	•	•
45 x 58 x 7	AS	•	•
45 x 58 x 7	ASP	•	
45 x 58 x 8	A	•	
45 x 58 x 8	AS	•	
45 x 59 x 10	AS	•	
45 x 60 x 10	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
45 x 60 x 10	A	•	•
45 x 60 x 10	AS	•	•
45 x 60 x 10	AS	•	
45 x 60 x 12	A	•	
45 x 60 x 13	AS	•	
45 x 60 x 5	A	•	
45 x 60 x 7	A	•	•
45 x 60 x 7	AS	•	•
45 x 60 x 7	ASP		•
45 x 60 x 8	A	•	•
45 x 60 x 8	AS	•	•
45 x 60 x 8	ASP		•
45 x 61 x 9	A	•	
45 x 62 x 10	A	•	•
45 x 62 x 10	AS	•	•
45 x 62 x 12	A	•	•
45 x 62 x 12	AS	•	
45 x 62 x 6	A	•	
45 x 62 x 7	A	•	•
45 x 62 x 7	AS	•	•
45 x 62 x 7	AS	•	
45 x 62 x 7	ASP	•	
45 x 62 x 8	A	•	•
45 x 62 x 8	AS	•	•
45 x 64 x 7	AS	•	
45 x 64 x 8	AS	•	
45 x 65 x 10	A	•	
45 x 65 x 10	AS	•	
45 x 65 x 10	AS	•	
45 x 65 x 12	A	•	•
45 x 65 x 12	AS	•	•
45 x 65 x 6	A	•	
45 x 65 x 7	A	•	•
45 x 65 x 7	AS	•	•
45 x 65 x 7	ASP	•	•
45 x 65 x 8	A	•	
45 x 65 x 8	AS	•	
45 x 65 x 8	AS	•	•
45 x 65 x 8	ASP	•	
45 x 66 x 10	A	•	
45 x 66 x 10	AS	•	
45 x 66 x 6	A	•	•
45 x 67 x 10	AS	•	
45 x 67 x 7	A	•	
45 x 68 x 10	A	•	•
45 x 68 x 10	AS	•	•
45 x 68 x 12	A	•	
45 x 68 x 12	AS	•	•
45 x 68 x 7	AS	•	
45 x 68 x 8	AS	•	•
45 x 68 x 9	AS	•	
45 x 70 x 10	A	•	•
45 x 70 x 10	AS	•	•
45 x 70 x 12	A	•	
45 x 70 x 12	AS	•	•
45 x 70 x 5	A	•	
45 x 70 x 5	AS	•	
45 x 72 x 10	A	•	•
45 x 72 x 10	AS	•	•
45 x 72 x 12	AS	•	•
45 x 72 x 12	A		•
45 x 72 x 13	AS	•	
45 x 72 x 7	A	•	•
45 x 72 x 7	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
45 x 72 x 8	A	•	•
45 x 72 x 8	AS	•	•
45 x 75 x 10	A	•	•
45 x 75 x 10	AS	•	•
45 x 75 x 12	AS	•	
45 x 75 x 7	A	•	
45 x 75 x 7	AS	•	•
45 x 75 x 8	A	•	
45 x 75 x 8	AS	•	•
45 x 76 x 10	AS	•	
45 x 78 x 10	AS	•	
45 x 78 x 12	AS	•	
45 x 78 x 8	AS	•	
45 x 80 x 10	A	•	•
45 x 80 x 10	AS	•	•
45 x 80 x 12	AS		•
45 x 80 x 13	A	•	
45 x 80 x 7	AS	•	•
45 x 80 x 7	ASP	•	
45 x 80 x 7	A		•
45 x 80 x 8	A	•	
45 x 80 x 8	AS	•	•
45 x 82 x 8	AS	•	
45 x 85 x 10	A	•	•
45 x 85 x 10	AS	•	•
45 x 85 x 10	AS	•	
45 x 85 x 12	AS	•	
45 x 85 x 13	A	•	
45 x 85 x 7	AS	•	
45 x 85 x 8	AS	•	•
45 x 90 x 10	A	•	•
45 x 90 x 10	AS	•	•
45 x 90 x 8	AS	•	
45 x 95 x 10	AS	•	
46 x 58 x 7	AS	•	
46 x 60 x 10	AS	•	
46 x 60 x 7	AS	•	•
46 x 62 x 8	A	•	
46 x 62 x 8	AS	•	
46 x 62 x 9	A	•	
46 x 64 x 4	AS	•	
46 x 64 x 8	A	•	
46 x 65 x 10	A	•	•
46 x 65 x 10	AS	•	
46 x 65 x 7	AS	•	
46 x 68 x 8	AS	•	•
46 x 72 x 10	A	•	
46 x 72 x 10	A	•	•
46 x 78 x 10	A	•	
47 x 58 x 10	AS	•	
47 x 58 x 6	A	•	•
47 x 58 x 7	AS	•	
47 x 62 x 6	A	•	•
47 x 62 x 7	AS	•	•
47 x 62 x 7	ASP	•	•
47 x 62 x 8	AS	•	
47 x 64 x 8	AS	•	
47 x 65 x 10	A	•	
47 x 65 x 10	AS	•	
47 x 65 x 10	AS	•	•
47 x 65 x 8	AS	•	
47 x 67 x 10	AS	•	
47 x 70 x 8	AS	•	
47 x 72 x 10	A	•	

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Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
47 x 72 x 12	A	•	
47 x 72 x 12	AS	•	
47 x 72 x 8	AS	•	
47 x 77 x 10	A	•	
47 x 77 x 8	A	•	
47 x 80 x 10	A	•	•
47 x 80 x 10	AS	•	
47 x 80 x 12	AS	•	
47 x 90 x 8	AS	•	•
48 x 58 x 10	AS	•	
48 x 58 x 8	AS	•	
48 x 60 x 10	AS	•	•
48 x 60 x 7	AS	•	
48 x 60 x 8	AS	•	
48 x 62 x 10	A	•	
48 x 62 x 10	AS	•	•
48 x 62 x 6	AS	•	
48 x 62 x 7	A	•	
48 x 62 x 7	AS	•	•
48 x 62 x 8	A	•	•
48 x 62 x 8	AS	•	•
48 x 65 x 10	A	•	•
48 x 65 x 10	AS	•	•
48 x 65 x 7	A	•	•
48 x 65 x 7	AS	•	
48 x 65 x 8	A	•	
48 x 65 x 8	AS	•	•
48 x 67 x 10	AS	•	
48 x 68 x 10	A	•	•
48 x 68 x 10	AS	•	•
48 x 68 x 12	A	•	
48 x 68 x 7	AS	•	
48 x 68 x 8	AS	•	•
48 x 69 x 10	AS	•	
48 x 70 x 10	A	•	
48 x 70 x 10	AS	•	
48 x 70 x 8	AS	•	•
48 x 72 x 10	A	•	•
48 x 72 x 10	AS	•	•
48 x 72 x 12	AS	•	
48 x 72 x 7	AS	•	
48 x 72 x 8	A	•	•
48 x 72 x 8	AS	•	•
48 x 74 x 10	AS	•	
48 x 75 x 12	AS	•	
48 x 75 x 8	A	•	
48 x 80 x 10	A	•	•
48 x 80 x 10	AS	•	•
48 x 80 x 8	A	•	
48 x 80 x 8	AS	•	
48 x 85 x 10	A	•	•
48 x 85 x 10	AS	•	
48 x 90 x 10	A	•	
49 x 65 x 10	A	•	
49 x 68 x 9	AS	•	
49 x 92 x 10	AS	•	
50 x 100 x 10	AS	•	
50 x 100 x 12	AS	•	•
50 x 110 x 10	AS	•	
50 x 110 x 12	A	•	•
50 x 110 x 12	AS	•	•
50 x 120 x 12	AS	•	
50 x 58 x 4	A	•	
50 x 58 x 4	AS	•	•

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
50 x 58 x 7	ASP	•	
50 x 60 x 10	A	•	
50 x 60 x 10	AS	•	
50 x 60 x 6	AS	•	
50 x 60 x 7	A	•	•
50 x 60 x 8	A	•	
50 x 60 x 8	AS	•	•
50 x 62 x 10	A	•	•
50 x 62 x 10	AS	•	•
50 x 62 x 5	A	•	•
50 x 62 x 6	A	•	
50 x 62 x 7	A	•	•
50 x 62 x 7	AS	•	•
50 x 62 x 7	ASP	•	
50 x 62 x 8	A	•	
50 x 62 x 8	AS	•	•
50 x 63 x 8	AS	•	
50 x 65 x 10	A	•	•
50 x 65 x 10	AS	•	•
50 x 65 x 12	A	•	
50 x 65 x 7	A	•	
50 x 65 x 7	AS	•	•
50 x 65 x 7	ASP	•	•
50 x 65 x 8	A	•	
50 x 65 x 8	A	•	•
50 x 65 x 8	AS	•	•
50 x 65 x 8	ASP	•	
50 x 65 x 9	A	•	
50 x 66 x 8	A	•	
50 x 68 x 10	A	•	•
50 x 68 x 10	AS	•	•
50 x 68 x 12	AS	•	
50 x 68 x 7	AS	•	•
50 x 68 x 7	ASP	•	•
50 x 68 x 8	A	•	•
50 x 68 x 8	AS	•	•
50 x 68 x 8	ASP	•	
50 x 68 x 9	AS	•	
50 x 70 x 10	A	•	•
50 x 70 x 10	AS	•	•
50 x 70 x 10	ASP	•	
50 x 70 x 12	A	•	•
50 x 70 x 12	AS	•	
50 x 70 x 14	AS	•	
50 x 70 x 7	A	•	
50 x 70 x 7	AS	•	
50 x 70 x 8	A	•	•
50 x 70 x 8	AS	•	•
50 x 72 x 10	A	•	•
50 x 72 x 10	AS	•	•
50 x 72 x 12	A	•	•
50 x 72 x 12	AS	•	•
50 x 72 x 7	AS	•	•
50 x 72 x 7	ASP	•	•
50 x 72 x 8	A	•	•
50 x 72 x 8	AS	•	•
50 x 72 x 8	ASP	•	
50 x 73 x 8	AS	•	
50 x 75 x 10	A	•	
50 x 75 x 10	AS	•	
50 x 75 x 12	AS	•	•
50 x 75 x 12	A	•	•
50 x 75 x 8	AS	•	
50 x 76 x 12	AS	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
50 x 76 x 13	AS	•	
50 x 78 x 10	A	•	
50 x 78 x 10	AS	•	
50 x 80 x 10	A	•	
50 x 80 x 10	AS	•	
50 x 80 x 10	AS	•	
50 x 80 x 12	A	•	•
50 x 80 x 12	AS	•	•
50 x 80 x 13	A	•	
50 x 80 x 13	AS	•	•
50 x 80 x 6	A	•	
50 x 80 x 6	AS	•	
50 x 80 x 8	A	•	•
50 x 80 x 8	AS	•	•
50 x 80 x 8	ASP	•	•
50 x 81 x 13	AS	•	
50 x 85 x 10	A	•	
50 x 85 x 10	AS	•	•
50 x 90 x 10	A	•	•
50 x 90 x 10	AS	•	•
50 x 90 x 12	AS	•	
50 x 90 x 8	AS	•	
51 x 72 x 10	A	•	
52 x 100 x 10	AS	•	•
52 x 100 x 12	AS	•	
52 x 60 x 8	A	•	
52 x 62 x 10	AS	•	
52 x 62 x 7	AS	•	
52 x 62 x 8	A	•	•
52 x 64 x 9	AS	•	
52 x 65 x 8	A	•	
52 x 65 x 8	AS	•	
52 x 65 x 9	A	•	
52 x 68 x 10	A	•	
52 x 68 x 10	AS	•	•
52 x 68 x 12	A	•	
52 x 68 x 7	AS	•	•
52 x 68 x 8	A	•	
52 x 68 x 8	A	•	•
52 x 68 x 8	AS	•	•
52 x 69 x 10	A	•	•
52 x 69 x 10	AS	•	
52 x 70 x 10	A	•	
52 x 70 x 10	AS	•	
52 x 70 x 7	AS	•	
52 x 70 x 8	AS	•	•
52 x 70 x 9	AS	•	
52 x 72 x	ASP		•
52 x 72 x 10	A	•	•
52 x 72 x 10	AS	•	•
52 x 72 x 12	A	•	
52 x 72 x 8	A	•	•
52 x 72 x 8	AS	•	•
52 x 73 x 10	AS	•	
52 x 75 x 10	A	•	•
52 x 75 x 10	AS	•	
52 x 75 x 12	A	•	•
52 x 75 x 12	AS	•	•
52 x 75 x 8	A	•	
52 x 75 x 8	AS	•	
52 x 76 x 13	A	•	
52 x 78 x 10	AS	•	
52 x 80 x 10	A	•	•
52 x 80 x 10	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
52 x 80 x 13	AS	•	
52 x 80 x 7	AS	•	
52 x 80 x 8	AS	•	
52 x 85 x 10	A	•	•
52 x 85 x 10	AS	•	•
52 x 85 x 8	AS	•	
52 x 90 x 13	AS	•	
52 x 90 x 8	AS	•	
53 x 65 x 5	AS	•	
53 x 68 x 10	A	•	•
53 x 68 x 10	AS	•	•
53 x 79 x 10	A	•	
54 x 140 x 12	AS	•	•
54 x 65 x 8	AS	•	•
54 x 66 x 7	AS	•	
54 x 70 x 10	A	•	
54 x 70 x 10	AS	•	
54 x 70 x 12	A	•	•
54 x 72 x 10	A	•	•
54 x 72 x 10	AS	•	•
54 x 72 x 8	AS	•	
54 x 73 x 10	AS	•	
54 x 73 x 8	AS	•	
54 x 74 x 8	A	•	
54 x 75 x 12	A	•	
54 x 75 x 8	AS	•	
54 x 76 x 12	A	•	
54 x 80 x 10	AS	•	
54 x 80 x 12	AS	•	
54 x 80 x 13	AS	•	
54 x 80 x 13	AS	•	
54 x 80 x 8	A	•	
54 x 81 x 10	AS	•	
54 x 82 x 10	A	•	
54 x 82 x 11	A	•	
54 x 85 x 10	A	•	•
54 x 85 x 10	AS	•	•
54 x 90 x 10	A	•	•
54 x 90 x 13	A	•	•
55 x 100 x 10	A	•	•
55 x 100 x 10	AS	•	•
55 x 100 x 12	A	•	
55 x 100 x 12	AS	•	
55 x 100 x 13	A	•	•
55 x 100 x 16	A	•	
55 x 100 x 8	AS	•	
55 x 120 x 12	A	•	•
55 x 120 x 12	AS	•	
55 x 63 x 5	A		•
55 x 65 x 10	AS	•	•
55 x 65 x 7	A	•	
55 x 65 x 8	A	•	
55 x 65 x 8	AS	•	
55 x 68 x 10	A	•	•
55 x 68 x 10	AS	•	•
55 x 68 x 5	A		•
55 x 68 x 7	ASP	•	•
55 x 68 x 8	A	•	•
55 x 68 x 8	AS	•	•
55 x 70 x 10	A	•	•
55 x 70 x 10	AS	•	•
55 x 70 x 12	AS	•	
55 x 70 x 7	AS	•	•
55 x 70 x 8	A	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
55 x 70 x 8	AS	•	•
55 x 70 x 8	ASP	•	•
55 x 71 x 10	AS	•	
55 x 72 x 10	A	•	•
55 x 72 x 10	AS	•	•
55 x 72 x 6	AS	•	
55 x 72 x 7	AS	•	
55 x 72 x 7	ASP	•	•
55 x 72 x 8	A	•	
55 x 72 x 8	AS	•	
55 x 72 x 8	ASP	•	
55 x 72 x 8	AS	•	•
55 x 72 x 9	AS	•	
55 x 75 x 10	A	•	•
55 x 75 x 10	AS	•	•
55 x 75 x 12	A	•	•
55 x 75 x 12	AS	•	•
55 x 75 x 7	ASP	•	•
55 x 75 x 7	A		•
55 x 75 x 8	AS	•	•
55 x 75 x 8	AS	•	•
55 x 75 x 8	ASP		•
55 x 76 x 10	AS	•	
55 x 76 x 12	AS	•	
55 x 77 x 10	A	•	
55 x 77 x 10	AS	•	
55 x 78 x 10	A	•	•
55 x 78 x 10	AS	•	•
55 x 78 x 12	A	•	
55 x 78 x 12	AS	•	•
55 x 78 x 8	AS	•	•
55 x 80 x 10	A	•	•
55 x 80 x 10	AS	•	•
55 x 80 x 10	ASP	•	
55 x 80 x 12	A	•	
55 x 80 x 13	A	•	
55 x 80 x 13	AS	•	
55 x 80 x 5	A	•	
55 x 80 x 5	AS	•	
55 x 80 x 6	A	•	
55 x 80 x 8	A	•	•
55 x 80 x 8	AS	•	•
55 x 82 x 10	AS	•	
55 x 85 x 10	A	•	•
55 x 85 x 10	AS	•	•
55 x 85 x 12	A	•	
55 x 85 x 13	A	•	
55 x 85 x 13	AS	•	
55 x 85 x 14	AS	•	
55 x 85 x 8	A	•	•
55 x 85 x 8	AS	•	•
55 x 90 x 10	A	•	•
55 x 90 x 10	AS	•	•
55 x 90 x 13	A	•	
55 x 90 x 7	A	•	
55 x 90 x 7	ASP		•
55 x 90 x 8	A	•	•
55 x 90 x 8	AS	•	•
55 x 90 x 8	ASP	•	
55 x 95 x 10	A	•	
56 x 100 x 10	AS	•	
56 x 66 x 10	A	•	•
56 x 70 x 8	A	•	•
56 x 70 x 8	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
56 x 72 x 10	A	•	
56 x 72 x 10	AS	•	
56 x 72 x 7	AS	•	
56 x 72 x 8	A	•	•
56 x 72 x 8	AS	•	•
56 x 72 x 8	ASP	•	
56 x 74 x 10	AS	•	
56 x 76 x 11	A	•	•
56 x 80 x 10	AS	•	
56 x 80 x 12	A	•	•
56 x 80 x 13	AS	•	
56 x 80 x 8	A	•	•
56 x 80 x 8	AS	•	•
56 x 85 x 10	AS		•
56 x 85 x 8	A	•	•
56 x 85 x 8	AS	•	•
56 x 90 x 10	AS		•
57 x 71 x 7	A	•	
57 x 75 x 10	A	•	
57 x 75 x 12	A	•	
57 x 75 x 12	AS		•
57 x 75 x 7.5	AS	•	
57 x 80 x 12	A	•	
57 x 80 x 8	AS	•	
57 x 85 x 10	A	•	
57 x 85 x 12	A	•	
57 x 85 x 13	A	•	
57 x 85 x 13	AS		•
57 x 90 x 10	A	•	
57 x 90 x 13	AS	•	
57 x 95 x 10	A	•	
58 x 58 x 10	ASP	•	
58 x 70 x 10	AS	•	
58 x 70 x 7	AS		•
58 x 70 x 8	AS	•	
58 x 72 x 10	A	•	•
58 x 72 x 10	AS	•	•
58 x 72 x 8	A	•	•
58 x 72 x 8	AS	•	•
58 x 75 x 10	A	•	
58 x 75 x 10	AS	•	•
58 x 75 x 12	AS	•	
58 x 75 x 8	A	•	•
58 x 75 x 8	AS	•	•
58 x 75 x 9	A	•	
58 x 75 x 9	AS	•	
58 x 76 x 10	A	•	
58 x 76 x 7	A	•	
58 x 78 x 10	AS	•	
58 x 78 x 12	AS	•	
58 x 78 x 13	A	•	•
58 x 78 x 13	AS	•	
58 x 80 x 10	A	•	
58 x 80 x 10	AS	•	•
58 x 80 x 10	ASP	•	•
58 x 80 x 10	AS	•	•
58 x 80 x 12	AS	•	•
58 x 80 x 13	A	•	
58 x 80 x 13	AS	•	
58 x 80 x 8	A	•	•
58 x 80 x 8	AS	•	•
58 x 80 x 9	AS	•	•
58 x 81.2 x 5	A	•	
58 x 82 x 10	AS		•

DIMENSIONI | DIMENSIONS

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
58 x 82 x 12	AS	•	
58 x 85 x 10	A	•	•
58 x 85 x 10	AS	•	
58 x 85 x 13	A	•	
58 x 85 x 13	AS	•	
58 x 90 x 10	A	•	•
58 x 90 x 10	AS	•	•
60 x 100 x 10	A	•	•
60 x 100 x 10	AS	•	•
60 x 100 x 13	A	•	
60 x 100 x 13	AS	•	
60 x 104 x 12	AS	•	
60 x 110 x 10	A	•	
60 x 110 x 10	AS	•	
60 x 110 x 12	A	•	•
60 x 110 x 12	AS	•	•
60 x 110 x 12	ASP	•	
60 x 110 x 13	A	•	•
60 x 110 x 13	AS	•	•
60 x 110 x 8	AS	•	
60 x 120 x 10	AS	•	
60 x 120 x 12	A	•	
60 x 130 x 10	AS	•	
60 x 130 x 12	A	•	•
60 x 130 x 12	AS	•	
60 x 140 x 13	AS	•	•
60 x 140 x 15	AS	•	•
60 x 70 x 10	AS	•	
60 x 70 x 7	A	•	
60 x 70 x 7	AS	•	•
60 x 70 x 8	A	•	
60 x 72 x 10	AS	•	
60 x 72 x 8	A	•	•
60 x 72 x 8	AS	•	
60 x 74 x 10	A	•	•
60 x 75 x 10	AS	•	•
60 x 75 x 10	ASP	•	•
60 x 75 x 12	A	•	
60 x 75 x 12	AS	•	
60 x 75 x 8	A	•	•
60 x 75 x 8	AS	•	
60 x 75 x 8	ASP	•	•
60 x 78 x 10	A	•	•
60 x 78 x 10	AS	•	•
60 x 80 x 10	A	•	•
60 x 80 x 10	AS	•	•
60 x 80 x 10	ASP	•	•
60 x 80 x 12	A	•	•
60 x 80 x 12	AS	•	•
60 x 80 x 13	A	•	
60 x 80 x 13	A	•	
60 x 80 x 13	AS	•	•
60 x 80 x 7	A	•	•
60 x 80 x 7	AS	•	•
60 x 80 x 7	ASP	•	•
60 x 80 x 8	A	•	•
60 x 80 x 8	AS	•	•
60 x 80 x 8	AS	•	•
60 x 80 x 9	AS	•	
60 x 82 x 10	AS	•	
60 x 82 x 12	AS	•	•
60 x 82 x 7	AS	•	•
60 x 82 x 9	AS	•	
60 x 85 x 10	A	•	•
60 x 85 x 10	AS	•	•

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
60 x 85 x 10	ASP	•	
60 x 85 x 12	A	•	
60 x 85 x 12	AS		•
60 x 85 x 13	A	•	
60 x 85 x 13	AS	•	
60 x 85 x 6	AS	•	•
60 x 85 x 8	AS	•	•
60 x 85 x 8	ASP	•	
60 x 85 x 8	A		•
60 x 90 x 10	AS	•	•
60 x 90 x 10	A		•
60 x 90 x 12	A		•
60 x 90 x 12	AS		•
60 x 90 x 13	A	•	
60 x 90 x 7	ASP	•	
60 x 90 x 8	A	•	•
60 x 90 x 8	AS	•	•
60 x 95 x 10	A	•	•
60 x 95 x 10	AS	•	•
60 x 95 x 13	AS	•	
60 x 95 x 8	AS	•	
62 x 100 x 10	A	•	•
62 x 100 x 10	AS	•	
62 x 100 x 12	A	•	•
62 x 100 x 12	AS	•	
62 x 110 x 13	A	•	
62 x 120 x 12	AS	•	•
62 x 75 x 10	AS	•	
62 x 76 x 10	A	•	•
62 x 76 x 10	AS	•	
62 x 80 x 10	A	•	•
62 x 80 x 10	AS	•	•
62 x 80 x 12	A	•	
62 x 80 x 12	AS	•	
62 x 80 x 8	AS	•	
62 x 83 x 9	AS	•	
62 x 85 x 10	A	•	•
62 x 85 x 10	AS	•	•
62 x 85 x 12	A	•	•
62 x 85 x 12	AS	•	
62 x 85 x 13	A	•	
62 x 85 x 13	AS	•	
62 x 85 x 7	ASP	•	•
62 x 85 x 8	A	•	
62 x 85 x 8	AS	•	
62 x 90 x 10	A	•	•
62 x 90 x 10	AS	•	•
62 x 90 x 13	A	•	
62 x 90 x 13	AS	•	
62 x 95 x 10	A	•	
62 x 95 x 10	AS	•	
63 x 100 x 10	AS	•	
63 x 80 x 9	AS	•	•
63 x 80 x 9	A	•	•
63 x 85 x 10	A	•	•
63 x 85 x 10	AS	•	•
63 x 85 x 13	A	•	
63 x 85 x 8	AS	•	
63 x 88 x 10	A	•	
63 x 90 x 10	A	•	•
63 x 90 x 10	AS	•	
64 x 120 x 12	AS	•	•
64 x 77 x 8	A	•	
64 x 80 x 10	AS	•	•

Dimensioni <i>Dimensions (mm)</i>	Tipo <i>Type</i>	NBR	FKM
64 x 80 x 13	AS	•	
64 x 80 x 8	A	•	•
64 x 80 x 8	AS	•	
64 x 80 x 8	ASP	•	
64 x 82 x 8	AS	•	
64 x 85 x 10	A	•	
64 x 85 x 10	AS	•	
64 x 85 x 12	AS	•	•
64 x 85 x 12	A		•
64 x 86 x 11	A	•	
64 x 90 x 13	AS	•	
65 x 100 x 10	A	•	•
65 x 100 x 10	AS	•	•
65 x 100 x 10	ASP		•
65 x 100 x 12	A	•	•
65 x 100 x 12	AS	•	•
65 x 100 x 12	ASP	•	
65 x 100 x 13	A	•	
65 x 100 x 8	AS	•	•
65 x 110 x 10	A	•	•
65 x 110 x 10	AS	•	•
65 x 110 x 12	A	•	
65 x 110 x 12	AS	•	•
65 x 110 x 12	A	•	
65 x 120 x 10	A	•	
65 x 120 x 10	AS	•	
65 x 120 x 12	A	•	
65 x 120 x 12	AS	•	•
65 x 120 x 13	AS	•	•
65 x 120 x 8	A	•	
65 x 120 x 8	AS	•	
65 x 125 x 12	A	•	
65 x 140 x 10	AS	•	
65 x 140 x 12	AS	•	
65 x 140 x 14	AS	•	
65 x 75 x 10	AS	•	•
65 x 75 x 7	AS	•	
65 x 75 x 8	A	•	
65 x 75 x 8	AS		•
65 x 80 x 10	A	•	
65 x 80 x 10	AS	•	•
65 x 80 x 12	A	•	•
65 x 80 x 12	AS	•	
65 x 80 x 7	AS	•	•
65 x 80 x 7	ASP	•	•
65 x 80 x 8	A	•	•
65 x 80 x 8	AS	•	•
65 x 82 x 10	AS	•	
65 x 85 x 10	A	•	•
65 x 85 x 10	AS	•	•
65 x 85 x 10	ASP	•	
65 x 85 x 12	A	•	•
65 x 85 x 12	AS	•	•
65 x 85 x 13	AS	•	•
65 x 85 x 8	A	•	
65 x 85 x 8	AS	•	•
65 x 85 x 8	ASP	•	•
65 x 88 x 12	A	•	
65 x 88 x 12	AS	•	
65 x 89 x 13	AS	•	
65 x 90 x 10	A	•	•
65 x 90 x 10	AS	•	•
65 x 90 x 10	ASP	•	
65 x 90 x 12	A	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
65 x 90 x 12	AS	•	
65 x 90 x 13	AS	•	
65 x 90 x 7	AS	•	
65 x 90 x 7	AS	•	
65 x 90 x 7	ASP	•	
65 x 90 x 8	AS	•	
65 x 92 x 10	A	•	
65 x 92 x 12	A	•	
65 x 92 x 13	AS	•	
65 x 95 x 10	A	•	•
65 x 95 x 10	AS	•	•
65 x 95 x 12	AS		•
65 x 95 x 8	AS	•	
66 x 90 x 8	A	•	
67 x 85 x 10	AS	•	
68 x 100 x 10	A	•	•
68 x 100 x 10	AS	•	•
68 x 100 x 13	A	•	
68 x 80 x 10	AS	•	
68 x 80 x 8	A	•	
68 x 82 x 10	A	•	
68 x 82 x 7	AS	•	
68 x 85 x 10	A	•	•
68 x 85 x 10	AS	•	•
68 x 85 x 12	AS	•	
68 x 85 x 8	AS	•	•
68 x 90 x 10	A	•	•
68 x 90 x 10	AS	•	•
68 x 90 x 10	ASP	•	
68 x 90 x 12	A	•	
68 x 90 x 13	A	•	
68 x 90 x 7	AS	•	•
68 x 90 x 8	AS	•	
68 x 92 x 12	AS	•	
68 x 95 x 10	A	•	
68 x 95 x 12	A	•	
68 x 95 x 13	A	•	•
68 x 95 x 13	AS	•	•
68 x 98 x 10	AS	•	
70 x 100 x 10	A	•	•
70 x 100 x 10	AS	•	•
70 x 100 x 10	ASP	•	•
70 x 100 x 12	A	•	•
70 x 100 x 12	AS	•	•
70 x 100 x 13	A	•	•
70 x 100 x 13	AS	•	
70 x 100 x 15	AS	•	
70 x 100 x 6	A	•	
70 x 100 x 8	A	•	
70 x 100 x 8	AS	•	•
70 x 102 x 12	A	•	
70 x 102 x 13	AS	•	
70 x 103 x 13	A	•	•
70 x 105 x 10	A	•	
70 x 105 x 10	AS	•	•
70 x 105 x 12	AS	•	
70 x 105 x 13	A	•	•
70 x 105 x 13	AS	•	
70 x 110 x 10	A	•	•
70 x 110 x 10	AS	•	•
70 x 110 x 12	A	•	•
70 x 110 x 12	AS	•	•
70 x 110 x 13	A	•	
70 x 110 x 13	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
70 x 110 x 8	A	•	•
70 x 110 x 8	AS	•	•
70 x 115 x 13	AS	•	
70 x 115 x 15	A	•	
70 x 120 x 10	A	•	
70 x 120 x 10	AS	•	
70 x 120 x 12	A	•	
70 x 120 x 12	AS	•	•
70 x 120 x 13	A	•	•
70 x 120 x 13	AS	•	•
70 x 125 x 12	A	•	•
70 x 125 x 12	AS	•	•
70 x 130 x 12	AS	•	
70 x 150 x 12	A	•	
70 x 80 x 10	AS	•	•
70 x 80 x 12	AS	•	
70 x 80 x 8	AS		•
70 x 82 x 7	ASP	•	
70 x 85 x 10	A	•	•
70 x 85 x 10	AS	•	
70 x 85 x 12	AS	•	
70 x 85 x 7	A	•	•
70 x 85 x 8	A	•	•
70 x 85 x 8	AS	•	•
70 x 85 x 8	ASP	•	•
70 x 88 x 10	A	•	
70 x 88 x 10	AS	•	•
70 x 88 x 8	AS	•	
70 x 88 x 9	A	•	
70 x 90 x 10	AS	•	
70 x 90 x 10	ASP	•	•
70 x 90 x 10	A		•
70 x 90 x 10	AS		•
70 x 90 x 12	A	•	•
70 x 90 x 12	AS	•	•
70 x 90 x 13	A	•	•
70 x 90 x 13	AS	•	•
70 x 90 x 15	A	•	•
70 x 90 x 7	A	•	•
70 x 90 x 7	AS	•	
70 x 90 x 7	ASP	•	•
70 x 90 x 8	AS	•	
70 x 90 x 9	A		•
70 x 92 x 12	AS	•	•
70 x 92 x 12	ASP	•	
70 x 92 x 13	A	•	•
70 x 92 x 13	AS	•	
70 x 92 x 9	AS	•	
70 x 95 x 10	A	•	•
70 x 95 x 10	AS	•	•
70 x 95 x 12	AS	•	
70 x 95 x 13	A	•	
70 x 95 x 13	AS	•	•
70 x 95 x 8	AS	•	
71 x 88 x 8	A	•	
72 x 100 x 10	A	•	•
72 x 100 x 10	AS	•	•
72 x 100 x 12	A	•	
72 x 100 x 12	AS	•	
72 x 105 x 13	A	•	•
72 x 105 x 13	AS	•	
72 x 110 x 12	A	•	
72 x 110 x 13	AS		•
72 x 140 x 12	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
72 x 140 x 12	A		•
72 x 85 x 10	A	•	•
72 x 86 x 7	AS	•	
72 x 88 x 8	AS	•	
72 x 90 x 10	A	•	
72 x 90 x 10	AS	•	•
72 x 95 x 10	A	•	•
72 x 95 x 10	AS	•	•
72 x 95 x 12	A	•	
72 x 95 x 12	AS	•	
72 x 95 x 13	A	•	
72 x 95 x 13	AS		•
72 x 95 x 7	A	•	
72 x 95 x 7	ASP	•	
73 x 90 x 10	A	•	
73 x 90 x 7	AS	•	
74 x 105 x 12	A	•	•
74 x 90 x 10	A	•	
74 x 90 x 10	AS	•	
74 x 95 x 10	AS	•	
75 x 100 x 10	A	•	•
75 x 100 x 10	AS	•	•
75 x 100 x 10	ASP	•	
75 x 100 x 12	A	•	•
75 x 100 x 12	AS	•	•
75 x 100 x 13	A	•	•
75 x 100 x 13	AS	•	•
75 x 101 x 12	A	•	
75 x 101 x 12	AS	•	
75 x 101 x 13	AS	•	
75 x 105 x 10	AS	•	
75 x 105 x 12	A	•	•
75 x 105 x 12	AS	•	•
75 x 105 x 12	ASP		•
75 x 105 x 13	AS	•	
75 x 105 x 13	A		•
75 x 110 x 10	A	•	
75 x 110 x 10	AS	•	•
75 x 110 x 12	A	•	•
75 x 110 x 12	AS	•	•
75 x 110 x 13	A	•	•
75 x 110 x 13	AS	•	
75 x 115 x 10	A	•	
75 x 115 x 10	AS	•	
75 x 115 x 12	A	•	
75 x 115 x 12	AS	•	
75 x 120 x 10	AS	•	
75 x 120 x 12	A	•	•
75 x 120 x 12	AS	•	•
75 x 120 x 13	AS	•	
75 x 125 x 12	A	•	
75 x 125 x 12	AS	•	
75 x 130 x 10	AS	•	•
75 x 130 x 12	A	•	
75 x 130 x 12	AS	•	•
75 x 130 x 13	AS	•	•
75 x 130 x 13	A	•	
75 x 85 x 10	AS	•	
75 x 85 x 6	AS	•	
75 x 85 x 8	AS	•	
75 x 90 x 10	A	•	•
75 x 90 x 10	ASP	•	
75 x 90 x 10	AS		•
75 x 90 x 12	A	•	

DIMENSIONI | DIMENSIONS

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
75 x 90 x 12	AS	•	
75 x 90 x 7	AS	•	
75 x 90 x 8	A	•	•
75 x 90 x 8	AS	•	•
75 x 92 x 7	A	•	
75 x 92 x 7	AS	•	
75 x 95 x 10	A	•	•
75 x 95 x 10	AS	•	•
75 x 95 x 10	ASP	•	•
75 x 95 x 12	A	•	•
75 x 95 x 12	AS	•	
75 x 95 x 7	AS	•	
75 x 95 x 7	ASP	•	•
75 x 95 x 8	A	•	
75 x 95 x 8	AS	•	•
75 x 95 x 9	AS	•	
76 x 100 x 10	AS	•	
76 x 100 x 16	AS	•	
76 x 105 x 12	A	•	
76 x 105 x 12	AS	•	
76 x 105 x 13	A		•
77 x 100 x 10	AS	•	
78 x 100 x 10	A	•	•
78 x 100 x 10	AS	•	•
78 x 100 x 12	AS	•	
78 x 100 x 13	AS	•	
78 x 105 x 10	AS	•	
78 x 105 x 13	A	•	•
78 x 110 x 12	A	•	•
78 x 110 x 12	AS	•	
78 x 125 x 10	AS	•	•
78 x 125 x 12	AS	•	
78 x 140 x 13	A		•
78 x 90 x 8	A	•	
78 x 95 x 11	A	•	
80 x 100 x 10	A	•	
80 x 100 x 10	A	•	•
80 x 100 x 10	AS	•	•
80 x 100 x 10	ASP	•	•
80 x 100 x 12	A	•	•
80 x 100 x 12	AS	•	•
80 x 100 x 13	A	•	
80 x 100 x 13	AS	•	•
80 x 100 x 14	AS	•	
80 x 100 x 7	A	•	
80 x 100 x 7	AS	•	•
80 x 100 x 7	ASP	•	•
80 x 100 x 8	AS	•	•
80 x 105 x 10	A	•	
80 x 105 x 10	AS	•	
80 x 105 x 12	A	•	
80 x 105 x 12	A	•	•
80 x 105 x 12	AS	•	•
80 x 105 x 13	A	•	
80 x 105 x 13	AS	•	
80 x 105 x 7.5	ASP	•	
80 x 108 x 15	AS	•	
80 x 110 x 10	A	•	•
80 x 110 x 10	AS	•	•
80 x 110 x 12	A	•	•
80 x 110 x 12	AS	•	•
80 x 110 x 13	A	•	
80 x 110 x 13	AS	•	
80 x 112 x 10	AS	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
80 x 115 x 10	A	•	
80 x 115 x 10	AS	•	
80 x 115 x 12	A	•	•
80 x 115 x 13	A	•	
80 x 115 x 13	AS	•	•
80 x 120 x 10	AS	•	
80 x 120 x 10	ASP	•	
80 x 120 x 12	A	•	
80 x 120 x 12	AS	•	•
80 x 120 x 13	A	•	•
80 x 120 x 13	AS	•	•
80 x 125 x 10	A	•	•
80 x 125 x 10	AS	•	•
80 x 125 x 12	A	•	•
80 x 125 x 12	AS	•	•
80 x 125 x 13	A	•	•
80 x 130 x 12	A	•	
80 x 130 x 13	A	•	
80 x 140 x 10	AS	•	
80 x 140 x 12	A	•	•
80 x 140 x 13	A	•	•
80 x 140 x 13	AS	•	
80 x 145 x 13	A	•	
80 x 150 x 15	AS	•	
80 x 150.5 x 13	A	•	
80 x 150.5 x 13	AS	•	
80 x 90 x 10	AS	•	
80 x 90 x 6	AS	•	•
80 x 95 x 10	A	•	
80 x 95 x 10	AS	•	•
80 x 95 x 8	A	•	•
80 x 95 x 8	AS	•	•
80 x 98 x 10	AS		•
82 x 100 x 10	A	•	
82 x 100 x 12	AS		•
82 x 100 x 8	AS		•
82 x 105 x 10	AS	•	•
82 x 105 x 12	A	•	•
82 x 105 x 12	AS	•	
82 x 110 x 12	A	•	•
82 x 110 x 12	AS	•	•
82 x 120 x 12	AS	•	
82 x 160 x 10	AS	•	
83 x 100 x 8	AS	•	
83 x 110 x 13	AS	•	•
84 x 110 x 10	AS	•	•
84 x 110 x 16	AS	•	
85 x 100 x 10	A	•	
85 x 100 x 10	AS	•	•
85 x 100 x 12	A	•	
85 x 100 x 12	AS	•	•
85 x 100 x 13	AS	•	
85 x 100 x 13	A		•
85 x 100 x 18	AS	•	
85 x 100 x 6	AS	•	•
85 x 100 x 9	A	•	•
85 x 105 x 10	A	•	•
85 x 105 x 10	AS	•	•
85 x 105 x 12	A	•	•
85 x 105 x 12	AS	•	•
85 x 105 x 12	ASP	•	
85 x 105 x 13	A	•	•
85 x 105 x 13	AS	•	•
85 x 105 x 8	A	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
85 x 105 x 8	AS	•	
85 x 110 x 10	A	•	•
85 x 110 x 10	AS	•	•
85 x 110 x 12	A	•	•
85 x 110 x 12	AS	•	•
85 x 110 x 12	ASP	•	
85 x 110 x 13	A	•	•
85 x 110 x 13	AS	•	•
85 x 110 x 15	A	•	
85 x 110 x 8	ASP	•	•
85 x 115 x 10	AS	•	
85 x 115 x 12	A	•	
85 x 115 x 12	AS	•	
85 x 115 x 12	A	•	•
85 x 115 x 13	A	•	
85 x 115 x 13	AS	•	
85 x 115 x 15	A	•	
85 x 120 x 10	AS	•	
85 x 120 x 12	A	•	•
85 x 120 x 12	AS	•	•
85 x 120 x 13	AS	•	•
85 x 120 x 15	AS	•	
85 x 120 x 7.5	ASP	•	
85 x 124 x 12	AS	•	
85 x 125 x 10	A	•	
85 x 125 x 12	A	•	
85 x 125 x 12	AS	•	
85 x 126 x 12	A	•	•
85 x 126 x 12	AS	•	
85 x 126 x 13	A	•	•
85 x 130 x 10	A	•	
85 x 130 x 10	AS	•	•
85 x 130 x 12	A	•	
85 x 130 x 12	AS	•	•
85 x 130 x 13	AS	•	•
85 x 140 x 12	A	•	
85 x 140 x 12	AS	•	•
85 x 140 x 13	AS	•	
85 x 150 x 12	A	•	
85 x 150 x 12	AS	•	•
85 x 150 x 13	A	•	
85 x 155 x 12	A	•	
85 x 95 x 10	AS	•	
86 x 100 x 7	A	•	•
86 x 125 x 13	A	•	
87 x 110 x 13	A	•	
88 x 105 x 12	A	•	
88 x 110 x 12	A	•	•
88 x 110 x 12	AS	•	•
88 x 110 x 13	A		•
88 x 115 x 12	AS	•	
88 x 115 x 9	A	•	
88 x 115 x 9	AS	•	
88 x 120 x 12	A	•	
88 x 120 x 13	AS	•	
88 x 126 x 12	A	•	
88 x 126 x 12	AS	•	
88 x 140 x 12	A	•	
88 x 140 x 13	A	•	
88 x 150 x 13	A	•	
88 x 160 x 13	AS	•	
90 x 100 x 10	AS	•	
90 x 100 x 12	AS	•	•
90 x 105 x 10	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
90 x 105 x 10	AS	•	•
90 x 105 x 12	A	•	
90 x 105 x 12	A	•	
90 x 105 x 13	A	•	•
90 x 105 x 8	AS	•	
90 x 110 x	ASP		•
90 x 110 x 10	A	•	•
90 x 110 x 10	AS	•	•
90 x 110 x 10	ASP		•
90 x 110 x 12	A	•	•
90 x 110 x 12	AS	•	•
90 x 110 x 12	ASP	•	•
90 x 110 x 13	A	•	
90 x 110 x 13	AS	•	•
90 x 110 x 7	A	•	
90 x 110 x 7.5	AS	•	
90 x 110 x 7.5	ASP	•	
90 x 110 x 8	A	•	
90 x 110 x 8	AS	•	
90 x 115 x 10	AS	•	
90 x 115 x 10	ASP		•
90 x 115 x 12	A	•	•
90 x 115 x 12	AS	•	
90 x 115 x 13	A	•	
90 x 115 x 13	AS	•	
90 x 115 x 9	A	•	•
90 x 118 x 12	AS	•	
90 x 120 x 10	A	•	
90 x 120 x 10	AS	•	
90 x 120 x 12	A	•	•
90 x 120 x 12	AS	•	•
90 x 120 x 13	A	•	•
90 x 120 x 13	AS	•	
90 x 120 x 15	AS	•	
90 x 125 x 10	AS	•	
90 x 125 x 12	A	•	
90 x 125 x 12	AS	•	
90 x 125 x 12	ASP	•	
90 x 125 x 13	A	•	
90 x 125 x 13	AS	•	•
90 x 125 x 14	A	•	•
90 x 125 x 15	A	•	
90 x 125 x 15	AS	•	
90 x 130 x 10	AS	•	
90 x 130 x 12	A	•	•
90 x 130 x 12	AS	•	•
90 x 130 x 13	A	•	•
90 x 130 x 13	AS	•	
90 x 135 x 13	AS	•	
90 x 140 x 10	A	•	
90 x 140 x 10	AS	•	•
90 x 140 x 11	AS		•
90 x 140 x 12	A	•	
90 x 140 x 12	AS	•	
90 x 140 x 13	A	•	•
90 x 140 x 13	AS	•	•
90 x 160 x 10	A	•	
90 x 160 x 12	A	•	
90 x 160 x 12	AS	•	
92 x 112 x 10	A	•	
92 x 112 x 10	AS	•	
92 x 120 x 12	A	•	
92 x 120 x 12	AS	•	
92 x 120 x 13	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
92 x 120 x 13	A		•
92 x 140 x 12	AS		•
93 x 115 x 13	A	•	•
95 x 110 x 10	A	•	•
95 x 110 x 10	AS	•	•
95 x 110 x 12	A	•	•
95 x 110 x 12	AS	•	•
95 x 110 x 6	A	•	•
95 x 110 x 7	AS	•	
95 x 110 x 9	A	•	
95 x 112 x 12	A	•	
95 x 115 x 10	AS	•	•
95 x 115 x 12	A	•	
95 x 115 x 12	AS	•	•
95 x 115 x 13	A	•	•
95 x 115 x 13	AS	•	•
95 x 120 x 10	AS	•	•
95 x 120 x 12	A	•	•
95 x 120 x 12	AS	•	•
95 x 120 x 12	ASP	•	
95 x 120 x 13	A	•	
95 x 120 x 13	AS	•	•
95 x 120 x 13	ASP	•	
95 x 120 x 8	AS	•	
95 x 125 x 12	A	•	•
95 x 125 x 12	AS	•	•
95 x 125 x 12	ASP	•	•
95 x 125 x 13	A	•	
95 x 125 x 13	AS	•	
95 x 130 x 12	A	•	•
95 x 130 x 12	AS	•	•
95 x 130 x 13	A	•	•
95 x 130 x 13	AS	•	•
95 x 135 x 13	AS	•	•
95 x 135 x 13	A	•	•
95 x 135 x 14	A	•	
95 x 135 x 14	AS	•	
95 x 136 x 13	A	•	
95 x 140 x 13	AS	•	
95 x 145 x 10	A		•
95 x 145 x 13	A	•	
95 x 145 x 13	AS	•	
95 x 150 x 13	A		•
95 x 150 x 15	A	•	
95 x 170 x 13	A	•	
95 x 170 x 13	AS	•	•
96 x 117 x 10	A	•	•
96 x 135 x 7	A	•	
96 x 136 x 12	A	•	
97 x 125 x 12	ASP	•	
97 x 167 x 13	A	•	
98 x 120 x 12	A	•	
98 x 120 x 13	A	•	•
98 x 120 x 13	AS	•	•
98 x 125 x 12	A		•
98 x 125 x 13	A	•	•
98 x 125 x 13	AS	•	
98 x 128 x 10	AS	•	
98 x 128 x 10	A		•
98 x 130 x 13	AS	•	
100 x 110 x 12	AS	•	
100 x 115 x 12	AS	•	
100 x 115 x 9	AS	•	•
100 x 115 x 9	A		•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
100 x 118 x 12	AS	•	
100 x 120 x 10	A	•	•
100 x 120 x 10	AS	•	•
100 x 120 x 12	A	•	
100 x 120 x 12	A	•	
100 x 120 x 12	ASP	•	
100 x 120 x 12	A	•	•
100 x 120 x 12	AS	•	•
100 x 120 x 12	ASP		•
100 x 120 x 13	A	•	•
100 x 120 x 13	AS	•	
100 x 120 x 15	A	•	
100 x 120 x 15	AS	•	
100 x 120 x 7	AS	•	•
100 x 120 x 7.5	ASP	•	
100 x 120 x 8	A	•	
100 x 120 x 8	AS	•	
100 x 125 x 10	A	•	
100 x 125 x 10	AS	•	
100 x 125 x 12	A	•	•
100 x 125 x 12	AS	•	•
100 x 125 x 13	A	•	•
100 x 125 x 13	AS	•	
100 x 125 x 14	AS	•	
100 x 125 x 8	AS	•	
100 x 125 x 8	AS	•	
100 x 127 x 13	A	•	
100 x 130 x 10	A	•	
100 x 130 x 10	AS	•	
100 x 130 x 12	A	•	
100 x 130 x 12	A	•	•
100 x 130 x 12	AS	•	•
100 x 130 x 12	ASP	•	•
100 x 130 x 13	A	•	•
100 x 130 x 13	AS	•	•
100 x 130 x 14	A	•	•
100 x 130 x 14	AS	•	
100 x 130 x 15	AS	•	
100 x 135 x 13	A	•	
100 x 135 x 13	AS	•	
100 x 135 x 15	AS	•	•
100 x 140 x 12	A	•	
100 x 140 x 12	AS	•	•
100 x 140 x 13	A	•	•
100 x 140 x 13	AS	•	
100 x 150 x 12	A	•	•
100 x 150 x 12	AS	•	
100 x 150 x 13	A	•	•
100 x 150 x 13	AS	•	•
100 x 150 x 14	AS	•	
100 x 150 x 15	A	•	
100 x 150 x 15	AS	•	
100 x 160 x 12	AS	•	
100 x 180 x 12	A	•	
100 x 180 x 12	AS	•	•
100 x 180 x 13	A	•	
100 x 180 x 15	A	•	
100 x 185 x 13	A	•	
100 x 190 x 15	AS	•	
102 x 115 x 10	AS	•	
102 x 125 x 13	AS	•	
102 x 135 x 13	A	•	
104 x 120 x 13	A	•	•

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Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
104 x 125 x 10	A	•	
104 x 130 x 10	A	•	
105 x 120 x 10	A	•	
105 x 120 x 13	A	•	•
105 x 120 x 13	AS		•
105 x 120 x 8	AS	•	
105 x 125 x 10	A	•	
105 x 125 x 10	AS	•	
105 x 125 x 12	AS	•	•
105 x 125 x 13	A	•	•
105 x 125 x 13	AS	•	•
105 x 125 x 8	AS	•	
105 x 130 x 12	A	•	
105 x 130 x 12	A	•	•
105 x 130 x 12	AS	•	•
105 x 130 x 13	A	•	
105 x 130 x 13	AS	•	•
105 x 130 x 15	A	•	•
105 x 130 x 15	AS	•	
105 x 130 x 7.5	ASP	•	
105 x 130 x 9.5	AS	•	
105 x 135 x 13	AS	•	
105 x 135 x 14	AS	•	
105 x 135 x 15	AS	•	
105 x 136 x 13	A	•	
105 x 136 x 13	AS	•	
105 x 136 x 14	AS	•	
105 x 140 x 12	A	•	•
105 x 140 x 12	AS	•	•
105 x 140 x 12	ASP	•	
105 x 140 x 13	A	•	
105 x 140 x 13	AS	•	
105 x 145 x 13	AS	•	
105 x 145 x 16	A	•	
105 x 150 x 13	AS	•	
105 x 150 x 15	A	•	
105 x 150 x 15	AS		•
105 x 160 x 12	A	•	
105 x 160 x 12	AS	•	•
106 x 126 x 13	AS	•	
108 x 130 x 12	A	•	
108 x 135 x 15	A	•	
108 x 140 x 15	AS	•	
108 x 170 x 15	AS	•	
110 x 120 x 12	A		•
110 x 120 x 13	A		•
110 x 125 x 12	A	•	
110 x 125 x 12	AS	•	•
110 x 125 x 13	A	•	
110 x 125 x 7	AS	•	
110 x 125 x 7	ASP	•	•
110 x 125 x 9.5	AS	•	
110 x 128 x 9	A	•	•
110 x 130 x 10	A	•	
110 x 130 x 10	AS	•	
110 x 130 x 12	A	•	•
110 x 130 x 12	AS	•	•
110 x 130 x 12	ASP	•	•
110 x 130 x 13	A	•	•
110 x 130 x 13	AS		•
110 x 130 x 14	A	•	
110 x 130 x 8	A	•	•
110 x 135 x 12	A	•	•
110 x 135 x 12	AS		•

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
110 x 135 x 13	A	•	
110 x 135 x 13	AS	•	
110 x 140 x 10	A	•	
110 x 140 x 12	A	•	•
110 x 140 x 12	AS	•	•
110 x 140 x 12	ASP	•	
110 x 140 x 13	A	•	
110 x 140 x 13	A	•	•
110 x 140 x 13	AS	•	•
110 x 140 x 13	ASP	•	
110 x 140 x 14	A	•	
110 x 140 x 14	AS	•	
110 x 140 x 15	AS	•	
110 x 145 x 13	A	•	
110 x 145 x 13	AS	•	
110 x 150 x 12	A	•	
110 x 150 x 12	AS	•	•
110 x 150 x 13	A	•	•
110 x 150 x 13	AS	•	•
110 x 150 x 15	A	•	•
110 x 150 x 8	AS	•	
110 x 160 x 13	A	•	
110 x 160 x 13	AS	•	•
110 x 170 x 12	AS	•	•
110 x 170 x 15	AS	•	•
110 x 180 x 13	AS	•	
110 x 200 x 13	A	•	
110 x 200 x 13	AS	•	•
110 x 215 x 15	AS	•	•
112 x 130 x 12	A	•	
112 x 140 x 12	A	•	
112 x 140 x 12	AS	•	•
112 x 140 x 13	A	•	
112 x 140 x 13	AS	•	•
114 x 135 x 13	AS	•	•
115 x 130 x 12	A	•	•
115 x 130 x 12	AS	•	
115 x 130 x 13	A	•	
115 x 135 x 10	A	•	
115 x 135 x 12	AS	•	
115 x 135 x 13	A	•	
115 x 135 x 13	AS		•
115 x 135 x 14	AS	•	
115 x 135 x 9	A	•	•
115 x 140 x 10	A	•	•
115 x 140 x 10	AS	•	
115 x 140 x 12	A	•	•
115 x 140 x 12	AS	•	•
115 x 140 x 13	A	•	•
115 x 140 x 13	AS	•	•
115 x 140 x 15	A	•	
115 x 140 x 15	AS	•	
115 x 145 x 12	A	•	
115 x 145 x 13	A	•	•
115 x 145 x 15	A	•	
115 x 150 x 10	A	•	•
115 x 150 x 12	A	•	•
115 x 150 x 12	AS	•	•
115 x 150 x 12	AS	•	
115 x 150 x 13	A	•	
115 x 150 x 15	AS	•	
115 x 160 x 12	AS	•	
115 x 165 x 15	AS	•	
116 x 132 x 12	AS	•	

Dimensioni Dimensions (mm)	Tipo Type	NBR	FKM
118 x 140 x 13	A	•	
118 x 148 x 10	A	•	
118 x 150 x 12	AS		•
118 x 150 x 12	ASP		•
120 x 115 x 10	A	•	
120 x 120 x 12	AS	•	
120 x 130 x 7	A	•	
120 x 135 x 12	A	•	•
120 x 140 x 10	A	•	•
120 x 140 x 10	AS	•	•
120 x 140 x 12	A	•	•
120 x 140 x 12	AS	•	•
120 x 140 x 13	A	•	•
120 x 140 x 13	AS	•	•
120 x 140 x 13	ASP	•	•
120 x 140 x 14	AS		•
120 x 140 x 15	AS	•	
120 x 140 x 7.5	ASP	•	
120 x 145 x 12	AS		•
120 x 145 x 15	AS	•	
120 x 150 x 10	AS	•	•
120 x 150 x 10	AS		•
120 x 150 x 10	ASP		•
120 x 150 x 12	A	•	•
120 x 150 x 12	AS	•	•
120 x 150 x 12	ASP	•	•
120 x 150 x 13	A	•	•
120 x 150 x 13	AS	•	
120 x 150 x 13	ASP	•	
120 x 150 x 14	A	•	
120 x 150 x 15	A	•	•
120 x 150 x 15	AS	•	•
120 x 150 x 15	ASP	•	•
120 x 153 x 15	AS	•	
120 x 155 x 12	AS	•	
120 x 160 x 12	A	•	•
120 x 160 x 12	AS	•	•
120 x 160 x 13	A	•	
120 x 160 x 15	A	•	•
120 x 160 x 15	AS	•	•
120 x 170 x 12	AS	•	
120 x 170 x 15	AS	•	
120 x 180 x 13	AS	•	•
120 x 180 x 15	A	•	
120 x 180 x 15	AS	•	•
122 x 150 x 12	A	•	
122 x 150 x 13	A	•	
122 x 150 x 13	AS	•	
122 x 150 x 15	A	•	
125 x 140 x 10	A	•	
125 x 143 x 13	AS	•	
125 x 150 x 10	A		•
125 x 150 x 12	A	•	•
125 x 150 x 12	AS	•	•
125 x 150 x 13	A	•	•
125 x 150 x 13	AS	•	•
125 x 150 x 13	AS		•
125 x 150 x 13.5	A	•	
125 x 150 x 15	A	•	•
125 x 155 x 12	A	•	•
125 x 155 x 12	AS	•	•
125 x 155 x 14	AS		•
125 x 160 x 12	A	•	•
125 x 160 x 12	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
125 x 160 x 13	A	•	
125 x 160 x 15	AS	•	
125 x 160 x 15	A		•
125 x 165 x 15	AS	•	
125 x 170 x 12	AS	•	
125 x 170 x 15	A	•	
128 x 146 x 13.5	AS	•	
128 x 148 x 10	A	•	
128 x 150 x 13	A	•	•
128 x 150 x 13	AS	•	•
128 x 158 x 20	A	•	•
130 x 150 x 10	A	•	•
130 x 150 x 10	AS	•	•
130 x 150 x 12	AS	•	•
130 x 150 x 12	A		•
130 x 150 x 13	AS	•	
130 x 150 x 15	AS	•	•
130 x 150 x 7.5	ASP	•	
130 x 154 x 8	AS	•	
130 x 155 x 10	A	•	
130 x 160 x 12	A	•	•
130 x 160 x 12	AS	•	•
130 x 160 x 12	ASP	•	
130 x 160 x 13	A	•	•
130 x 160 x 13	AS	•	
130 x 160 x 14	AS	•	
130 x 160 x 15	A	•	•
130 x 160 x 15	AS	•	•
130 x 160 x 7.5	A	•	
130 x 160 x 7.5	ASP	•	
130 x 165 x 13	A		•
130 x 170 x 12	A	•	•
130 x 170 x 12	AS	•	•
130 x 170 x 13	A	•	•
130 x 170 x 15	A	•	•
130 x 170 x 7.5	AS	•	
130 x 172 x 12	A	•	
130 x 180 x 12	AS	•	
130 x 180 x 15	AS	•	
130 x 182 x 16	A	•	
130 x 190 x 12	AS	•	
130 x 190 x 15	AS	•	
130 x 200 x 15	A	•	
130 x 200 x 15	AS	•	•
130 x 215 x 15	AS	•	•
130 x 230 x 14	A	•	•
130 x 230 x 14	AS	•	•
130 x 230 x 15	A	•	•
133 x 160 x 15	AS	•	
135 x 150 x 15	AS	•	
135 x 153 x 9	AS	•	
135 x 153 x 9	AS	•	
135 x 155 x 12	A	•	
135 x 160 x 12	A	•	•
135 x 160 x 12	AS	•	•
135 x 160 x 12	ASP	•	
135 x 160 x 13	A	•	
135 x 160 x 13	AS	•	•
135 x 160 x 13	ASP	•	
135 x 160 x 14	A	•	
135 x 160 x 15	A	•	
135 x 160 x 15	AS	•	•
135 x 162 x 13	AS	•	
135 x 165 x 10	ASP		•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
135 x 165 x 12	A	•	•
135 x 165 x 13	AS	•	
135 x 165 x 14	AS	•	
135 x 165 x 15	AS	•	
135 x 170 x 12	A	•	•
135 x 170 x 12	AS	•	•
135 x 170 x 15	AS	•	
135 x 180 x 15	AS	•	
138 x 160 x 15	A	•	•
140 x 155 x 10	A	•	
140 x 160 x 10	A	•	
140 x 160 x 10	ASP	•	
140 x 160 x 12	A	•	
140 x 160 x 12	AS	•	•
140 x 160 x 13	A	•	•
140 x 160 x 13	AS	•	•
140 x 160 x 15	A	•	
140 x 160 x 15	AS	•	
140 x 160 x 15	ASP	•	
140 x 160 x 8	A	•	
140 x 160 x 8	ASP	•	
140 x 165 x 10	AS		•
140 x 165 x 12	A	•	•
140 x 165 x 12	AS	•	•
140 x 165 x 13	AS	•	
140 x 165 x 15	A	•	
140 x 165 x 15	AS	•	•
140 x 170 x 10	AS	•	
140 x 170 x 12	A	•	•
140 x 170 x 12	AS	•	•
140 x 170 x 12	ASP	•	•
140 x 170 x 13	A	•	
140 x 170 x 13	AS	•	•
140 x 170 x 14	A	•	
140 x 170 x 14	AS	•	
140 x 170 x 15	A	•	•
140 x 170 x 15	AS	•	•
140 x 170 x 15	ASP	•	
140 x 170 x 16	AS	•	
140 x 170 x 8	A	•	
140 x 175 x 15	AS	•	
140 x 180 x 10	A	•	
140 x 180 x 12	A	•	
140 x 180 x 12	AS	•	
140 x 180 x 12	ASP	•	
140 x 180 x 12	A		•
140 x 180 x 13	A	•	
140 x 180 x 13	AS	•	
140 x 180 x 15	A	•	•
140 x 180 x 15	AS	•	•
140 x 180 x 15	ASP		•
140 x 190 x 15	A	•	
140 x 190 x 15	AS	•	
140 x 210 x 15	AS	•	
144 x 160 x 12	A	•	
145 x 160 x 10	A	•	•
145 x 167 x 13	AS	•	
145 x 170 x 12	AS	•	
145 x 170 x 13	A	•	
145 x 170 x 13	AS	•	•
145 x 170 x 15	A	•	
145 x 170 x 15	A	•	
145 x 170 x 15	AS	•	•
145 x 175 x 13	AS	•	
145 x 175 x 14	AS	•	•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
145 x 175 x 15	A	•	•
145 x 175 x 15	AS	•	•
145 x 180 x 12	A	•	•
145 x 180 x 12	AS	•	•
145 x 180 x 13	A	•	•
145 x 180 x 13	AS	•	•
145 x 180 x 14	A	•	•
145 x 180 x 15	A	•	•
146 x 163 x 7	A	•	•
148 x 170 x 13	AS	•	
148 x 170 x 14.5	A	•	
148 x 170 x 14.5	A	•	
148 x 170 x 15	A	•	
148 x 170 x 15	AS	•	•
150 x 135 x 12	A	•	•
150 x 168 x 13	A	•	
150 x 168 x 13	AS	•	
150 x 170 x 12	A	•	•
150 x 170 x 12	AS	•	•
150 x 170 x 13	AS	•	
150 x 170 x 15	A	•	
150 x 170 x 16	A	•	
150 x 178 x 15	AS	•	
150 x 180 x 12	A	•	•
150 x 180 x 12	AS	•	•
150 x 180 x 13	AS	•	•
150 x 180 x 14	A	•	
150 x 180 x 14	AS		•
150 x 180 x 15	A	•	•
150 x 180 x 15	AS	•	•
150 x 180 x 8.5	AS	•	
150 x 180 x 8.5	ASP	•	
150 x 190 x 13	A	•	
150 x 190 x 15	A	•	
150 x 200 x 13	A	•	
150 x 200 x 13	AS	•	
150 x 200 x 15	A	•	
150 x 200 x 15	AS	•	•
155 x 174 x 12	A	•	•
155 x 174 x 12	AS	•	
155 x 175 x 12	A	•	•
155 x 175 x 13	AS	•	•
155 x 180 x 12	AS	•	•
155 x 180 x 15	A	•	
155 x 180 x 15	A	•	•
155 x 180 x 15	AS	•	
155 x 185 x 15	AS	•	•
155 x 190 x 13	A	•	
155 x 190 x 13	AS	•	
155 x 190 x 15	A	•	
155 x 190 x 15	AS	•	•
155 x 200 x 15	AS	•	
158 x 180 x 15	A	•	
158 x 180 x 15	AS	•	
160 x 180 x 10	AS	•	•
160 x 180 x 12	AS	•	
160 x 180 x 13	AS	•	
160 x 180 x 15	A	•	
160 x 180 x 15	AS	•	•
160 x 185 x 10	A	•	
160 x 185 x 10	A	•	•
160 x 185 x 10	AS	•	•
160 x 185 x 10	ASP	•	
160 x 185 x 13	A	•	•

DIMENSIONI | DIMENSIONS

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
160 x 185 x 13	AS	•	
160 x 185 x 15	A	•	
160 x 185 x 8.5	ASP	•	
160 x 190 x 12	AS	•	•
160 x 190 x 13	A	•	•
160 x 190 x 13	AS	•	•
160 x 190 x 15	A	•	
160 x 190 x 15	AS	•	•
160 x 190 x 16	A	•	
160 x 190 x 8	ASP	•	•
160 x 195 x 15	AS	•	
160 x 200 x 12	A	•	•
160 x 200 x 12	AS	•	
160 x 200 x 12	ASP	•	
160 x 200 x 13	A	•	
160 x 200 x 15	A	•	•
160 x 200 x 15	AS	•	
160 x 210 x 15	A	•	
160 x 210 x 15	AS	•	
160 x 240 x 15	AS	•	
162 x 190 x 12	A	•	
162 x 190 x 12	AS	•	•
165 x 185 x 13	AS	•	
165 x 190 x 13	A	•	•
165 x 190 x 13	AS	•	•
165 x 190 x 14	A	•	
165 x 190 x 15	AS	•	•
165 x 190 x 8	AS	•	
165 x 195 x 15	A	•	•
165 x 195 x 15	AS	•	
165 x 200 x 15	A	•	•
165 x 200 x 15	AS	•	
168 x 190 x 16	A	•	
168 x 190 x 16	AS	•	
168 x 200 x 15	A	•	
170 x 190 x 10	AS	•	•
170 x 190 x 13	AS	•	
170 x 190 x 15	A	•	•
170 x 190 x 15	AS	•	•
170 x 190 x 7	A		•
170 x 190 x 8.5	ASP	•	
170 x 200 x 12	A	•	•
170 x 200 x 12	AS	•	•
170 x 200 x 12	ASP	•	
170 x 200 x 13	A	•	
170 x 200 x 14	ASP	•	
170 x 200 x 15	A	•	•
170 x 200 x 15	AS	•	•
170 x 200 x 15	ASP	•	
170 x 205 x 15	A	•	
170 x 205 x 17	AS	•	
170 x 210 x 16	A	•	
170 x 210 x 20	A	•	
170 x 215 x 15	AS	•	
170 x 220 x 15	A	•	•
170 x 230 x 15	AS	•	•
175 x 200 x 10	A	•	•
175 x 200 x 12	A	•	•
175 x 200 x 13	AS	•	
175 x 200 x 15	A	•	•
175 x 200 x 15	AS	•	•
175 x 205 x 15	A	•	•
175 x 205 x 15	AS	•	
175 x 210 x 10	A		•

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
175 x 210 x 14	A	•	•
175 x 210 x 15	A	•	
175 x 215 x 15	A	•	
178 x 208 x 15	A	•	
180 x 200 x 12	AS	•	•
180 x 200 x 13	A	•	•
180 x 200 x 13	AS	•	•
180 x 200 x 15	A	•	•
180 x 200 x 15	AS	•	•
180 x 200 x 16	AS	•	•
180 x 210 x 10	A	•	
180 x 210 x 12	AS	•	
180 x 210 x 13	A	•	
180 x 210 x 15	A	•	•
180 x 210 x 15	AS	•	•
180 x 210 x 15	ASP	•	
180 x 210 x 16	AS	•	
180 x 210 x 16	A	•	
180 x 210 x 8	AS	•	
180 x 215 x 15	A	•	
180 x 215 x 15	AS	•	
180 x 215 x 16	A	•	•
180 x 220 x 12	AS	•	
180 x 220 x 15	A	•	•
180 x 220 x 15	AS	•	•
180 x 220 x 16	A	•	•
180 x 220 x 16	AS	•	
180 x 250 x 15	AS	•	
185 x 205 x 10	AS	•	•
185 x 210 x 10	A	•	•
185 x 210 x 13	A	•	•
185 x 210 x 13	AS	•	
185 x 210 x 15	A	•	
185 x 215 x 13	AS	•	•
185 x 215 x 15	A	•	
185 x 215 x 15	AS	•	
185 x 215 x 16	A	•	•
185 x 215 x 16	AS	•	•
185 x 216 x 16	A	•	
185 x 220 x 15	A	•	
190 x 210 x 10	AS	•	•
190 x 215 x 15	AS	•	
190 x 215 x 16	A	•	
190 x 215 x 16	AS	•	•
190 x 220 x 12	A	•	
190 x 220 x 12	AS	•	
190 x 220 x 15	A	•	•
190 x 220 x 15	AS	•	•
190 x 220 x 15	ASP	•	
190 x 220 x 16	A	•	
190 x 220 x 16	A	•	
190 x 220 x 16	AS	•	
190 x 220 x 20	AS	•	
190 x 225 x 12	A	•	•
190 x 225 x 12	AS	•	
190 x 225 x 16	A	•	
190 x 225 x 16	AS	•	•
190 x 230 x 15	A	•	
190 x 230 x 15	AS	•	
190 x 230 x 16	AS	•	•
192 x 210 x 10	A	•	
195 x 215 x 15	A	•	
195 x 220 x 12	AS	•	
195 x 220 x 16	A	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
195 x 230 x 15	A	•	
195 x 230 x 15	AS	•	
195 x 230 x 16	A	•	
195 x 230 x 16	AS	•	•
200 x 220 x 10	A	•	
200 x 220 x 12	AS	•	
200 x 220 x 15	A	•	
200 x 225 x 15	A	•	•
200 x 225 x 15	AS	•	
200 x 230 x 13	A	•	
200 x 230 x 13	AS	•	•
200 x 230 x 13	ASP	•	•
200 x 230 x 15	A	•	•
200 x 230 x 15	AS		•
200 x 230 x 16	A	•	
200 x 230 x 16	AS	•	
200 x 235 x 16	A	•	
200 x 240 x 15	A	•	
200 x 240 x 15	AS	•	•
200 x 240 x 16.5	A	•	
200 x 250 x 15	A	•	•
200 x 250 x 15	AS	•	•
200 x 250 x 18	A	•	
205 x 230 x 15	A	•	
205 x 230 x 16	A	•	•
205 x 250 x 16	A	•	
207 x 240 x 16	AS	•	•
210 x 240 x 15	A	•	
210 x 240 x 15	A	•	•
210 x 240 x 15	AS	•	•
210 x 250 x 15	A	•	•
210 x 250 x 15	AS	•	
210 x 250 x 16	A	•	
210 x 290 x 20	A	•	
210 x 290 x 20	AS	•	
215 x 240 x 12	A	•	•
215 x 240 x 15	A	•	
215 x 250 x 16	A	•	
215 x 250 x 16	AS	•	
218 x 250 x 16	A	•	
218 x 250 x 16	AS	•	
220 x 240 x 15	AS	•	
220 x 250 x 12	A	•	•
220 x 250 x 12	AS	•	
220 x 250 x 15	A	•	•
220 x 250 x 15	AS	•	•
220 x 250 x 16	AS	•	
220 x 255 x 16	A	•	
220 x 260 x 15	A	•	
220 x 260 x 16	A	•	•
220 x 260 x 16	AS	•	
220 x 265 x 16	A	•	•
220 x 290 x 15	A	•	
225 x 250 x 15	A	•	
225 x 255 x 15	AS	•	
225 x 260 x 15	AS	•	
225 x 270 x 15	AS	•	
230 x 250 x 15	A	•	
230 x 260 x 15	A	•	•
230 x 260 x 15	AS	•	•
230 x 270 x 15	A	•	
230 x 270 x 15	AS	•	•
230 x 280 x 15	A	•	•
230 x 280 x 15	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
230 x 285 x 23	AS	•	
235 x 265 x 15	A	•	
240 x 270 x 14	AS	•	
240 x 270 x 15	A	•	•
240 x 270 x 15	AS	•	•
240 x 270 x 8.5	ASP	•	
240 x 275 x 15	AS	•	
240 x 275 x 16	A	•	•
240 x 280 x 15	A	•	•
240 x 280 x 15	AS	•	•
240 x 280 x 16	A	•	
240 x 280 x 16	A	•	
245 x 273 x 15	AS	•	
245 x 280 x 15	AS	•	
250 x 280 x 15	A	•	•
250 x 280 x 15	AS	•	•
250 x 280 x 15	ASP	•	
250 x 280 x 16	A	•	
250 x 280 x 16	AS	•	
250 x 285 x 18	AS	•	
250 x 290 x 15	A	•	
250 x 290 x 15	AS	•	
250 x 290 x 16	A	•	•
250 x 290 x 16	AS	•	
260 x 280 x 10	ASP		•
260 x 280 x 15	AS	•	
260 x 280 x 16	AS	•	
260 x 280 x 16	ASP	•	
260 x 290 x 15	A	•	•
260 x 290 x 15	AS	•	•
260 x 290 x 16	A	•	•
260 x 290 x 16	AS	•	
260 x 300 x 15	A	•	
260 x 300 x 16	A	•	•
260 x 300 x 16	AS	•	
260 x 300 x 20	A	•	•
260 x 300 x 20	AS	•	•
260 x 310 x 16	A	•	
260 x 320 x 20	AS	•	
265 x 290 x 16	A	•	•
265 x 290 x 16	AS	•	
270 x 300 x 15	A	•	•
270 x 300 x 15	AS	•	
270 x 310 x 16	A	•	•
270 x 310 x 16	AS	•	•
270 x 310 x 20	A	•	
270 x 320 x 18	AS	•	
275 x 310 x 15	A	•	
275 x 320 x 15	A	•	
280 x 310 x 15	A	•	•
280 x 310 x 15	AS	•	•
280 x 310 x 16	AS	•	•
280 x 320 x 15	A	•	
280 x 320 x 15	AS	•	
280 x 320 x 16	AS	•	
280 x 320 x 18	A	•	
280 x 320 x 20	A	•	•
280 x 320 x 20	AS	•	•
280 x 350 x 16	A	•	•
285 x 310 x 16	A	•	
285 x 325 x 16	A	•	
290 x 320 x 15	A	•	•
290 x 320 x 15	AS	•	
290 x 330 x 18	AS	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
290 x 334 x 20	A	•	•
295 x 315 x 18	A		•
300 x 320 x 18	A	•	
300 x 330 x 16	A	•	
300 x 330 x 16	AS	•	•
300 x 332 x 16	A	•	
300 x 340 x 15	A	•	
300 x 340 x 15	AS	•	
300 x 340 x 16	A	•	
300 x 340 x 18	A	•	•
300 x 340 x 18	AS	•	•
300 x 340 x 20	A	•	•
300 x 340 x 20	AS	•	
300 x 340 x 20	ASP	•	
310 x 340 x 15	AS	•	•
310 x 350 x 18	A	•	
310 x 350 x 20	AS	•	
315 x 350 x 18	A	•	•
320 x 360 x 18	A	•	
320 x 360 x 18	AS	•	•
320 x 360 x 20	A	•	•
320 x 360 x 20	AS	•	•
320 x 364 x 20	AS	•	
330 x 370 x 18	A	•	•
330 x 370 x 18	AS	•	
335 x 375 x 18	AS	•	
340 x 370 x 15	A	•	
340 x 372 x 16	AS	•	
340 x 380 x 18	A	•	•
340 x 380 x 18	AS	•	•
340 x 380 x 20	A	•	•
340 x 380 x 20	AS	•	•
350 x 380 x 15	AS	•	
350 x 380 x 16	A	•	
350 x 380 x 16	AS	•	
350 x 390 x 18	A	•	•
350 x 405 x 20	AS	•	
350 x 410 x 28	AS	•	
355 x 399 x 20	A	•	
360 x 390 x 15	AS	•	
360 x 390 x 15	AS	•	•
360 x 400 x 16	A	•	
360 x 400 x 18	A	•	
360 x 400 x 18	AS	•	
360 x 400 x 20	A	•	
360 x 400 x 20	AS	•	•
370 x 410 x 15	A	•	•
370 x 410 x 15	AS	•	
370 x 410 x 18	A	•	
375 x 420 x 18	A	•	
380 x 410 x 12	A	•	
380 x 420 x 18	A	•	
380 x 420 x 20	A	•	•
380 x 420 x 20	AS	•	•
385 x 425 x 15	A	•	
390 x 430 x 20	A	•	
394 x 420 x 16	A	•	•
394 x 420 x 16	AS	•	•
394 x 420 x 16	ASP	•	
400 x 440 x 20	A	•	
400 x 440 x 20	AS	•	
400 x 450 x 20	AS	•	
420 x 455 x 20	A	•	
420 x 460 x 15	ASP	•	

Dimensioni <i>Dimensions</i> (mm)	Tipo <i>Type</i>	NBR	FKM
420 x 460 x 20	A	•	•
420 x 460 x 20	AS	•	•
420 x 470 x 20	A	•	
420 x 470 x 20	AS	•	•
440 x 480 x 20	A	•	•
440 x 480 x 20	AS	•	•
445 x 480 x 16	AS	•	
450 x 500 x 22	A	•	•
450 x 500 x 28	A	•	
460 x 500 x 20	A	•	
470 x 520 x 22	A	•	
480 x 520 x 20	A	•	•
480 x 520 x 20	AS	•	•
480 x 530 x 25	A	•	
490 x 530 x 20	A	•	
500 x 540 x 20	A	•	
500 x 540 x 20	AS	•	•
500 x 550 x 20	A	•	
500 x 550 x 20	AS	•	
500 x 550 x 22	A	•	
500 x 550 x 25	A	•	
502 x 550 x 20	A	•	
540 x 590 x 20	AS	•	
550 x 600 x 25	A	•	
560 x 600 x 18	A	•	
560 x 610 x 20	A	•	
575 x 615 x 20	A	•	
580 x 620 x 20	A	•	
590 x 628 x 15	AS	•	
600 x 640 x 20	A	•	
600 x 640 x 20	AS	•	
660 x 700 x 20	A	•	
670 x 710 x 20	A	•	
670 x 730 x 20	A		•
670 x 730 x 25	A	•	•
700 x 740 x 20	A	•	
710 x 760 x 20	A	•	
720 x 760 x 20	AS	•	
735 x 799 x 24	A	•	
750 x 810 x 30	A	•	
800 x 838 x 19	A	•	
800 x 838 x 20	A	•	
800 x 840 x 20	A	•	
850 x 910 x 30	A	•	

DIMENSIONI | DIMENSIONS

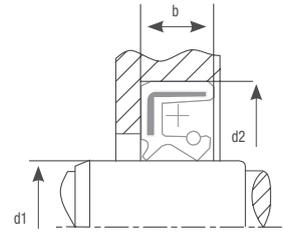
Anelli di tenuta DG/DG Metal in NBR - DG / DG Metal NBR shaft seals



Tipo DG - Type DG



DG metallo - DG metal



d1 x d2 x b

Dimensioni Dimensions (mm)
DG 4 x 8 x 2
DG 5 x 9 x 2
DG 5 x 10 x 2
DG 6 x 10 x 2
DG Met. 6 x 10 x 2
DG 6 x 12 x 2
DG 7 x 11 x 2
DG 7 x 14 x 2
DG 8 x 12 x 3
DG Met. 8 x 12 x 3
DG 8 x 13 x 3.5
DG 8 x 15 x 3
DG Met. 8 x 16 x 5
DG 9 x 13 x 3
DG 9 x 16 x 3
DG 10 x 14 x 3
DG Met. 10 x 14 x 3
DG 10 x 15 x 3
DG Met. 10 x 16 x 4

Dimensioni Dimensions (mm)
DG 10 x 17 x 3
DG 12 x 16 x 3
DG 12 x 18 x 3
DG Met. 12 x 18 x 3
DG 12 x 19 x 3
DG 13 x 19 x 3
DG 14 x 20 x 3
DG Met. 14 x 20 x 3
DG 14 x 21 x 3
DG 14 x 22 x 3
DG Met. 14 x 22 x 4
DG 15 x 21 x 3
DG Met. 15 x 21 x 3
DG 15 x 23 x 3
DG 16 x 22 x 3
DG Met. 16 x 22 x 6
DG 16 x 24 x 3
DG 16 x 25 x 3
DG 17 x 23 x 3

Dimensioni Dimensions (mm)
DG 17 x 25 x 3
DG 18 x 24 x 3
DG Met. 18 x 24 x 3
DG 18 x 24 x 4
DG 18 x 26 x 4
DG 19 x 27 x 4
DG 20 x 24 x 2.5
DG 20 x 26 x 3
DG 20 x 26 x 4
DG Met. 20 x 26 x 4
DG 20 x 27 x 4
DG 20 x 28 x 3
DG 20 x 28 x 4
DG 21 x 29 x 4
DG 22 x 28 x 4
DG Met. 22 x 28 x 4
DG 22 x 30 x 4
DG 24 x 32 x 4
DG 25 x 32 x 4

Dimensioni Dimensions (mm)
DG Met. 25 x 32 x 4
DG 25 x 33 x 4
DG 25 x 35 x 4
DG 26 x 34 x 4
DG 28 x 34 x 4
DG 28 x 35 x 4
DG Met. 28 x 35 x 4
DG 28 x 37 x 4
DG 29 x 38 x 4
DG 30 x 37 x 4
DG Met. 30 x 37 x 4
DG 30 x 40 x 4
DG 32 x 42 x 4
DG 32 x 45 x 4
DG 35 x 42 x 4
DG Met. 35 x 42 x 4
DG 35 x 45 x 4
DG 36 x 42 x 4
DG 37 x 47 x 4

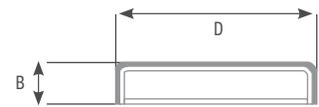
Dimensioni Dimensions (mm)
DG 38 x 48 x 4
DG 40 x 47 x 4
DG Met. 40 x 47 x 4
DG 40 x 48 x 4
DG 40 x 50 x 4
DG 40 x 52 x 5
DG 42 x 52 x 4
DG 43 x 53 x 4
DG 45 x 52 x 4
DG Met. 45 x 52 x 4
DG 45 x 55 x 4
DG 48 x 58 x 4
DG 50 x 58 x 4
DG Met. 50 x 58 x 4
DG 50 x 60 x 4
DG 50 x 62 x 5
DG 55 x 63 x 5
DG 58 x 66 x 5
DG Met. 58 x 66 x 5

Dimensioni Dimensions (mm)
DG Met. 60 x 67 x 4
DG 60 x 72 x 4
DG 70 x 78 x 5
DG Met. 75 x 90 x 5
DG 80 x 90 x 5
DG Met. 90 x 95 x 3

Tappi in metallo e NBR - Metal and NBR end cover



NBR - NBR



D x B

Dimensioni Dimensions (mm)
TAPPO EC 13/4.5 NBR
TAPPO EC 19/7 NBR
TAPPO EC 20/4 NBR
TAPPO EC 22/4 NBR
TAPPO EC 22/7 NBR
TAPPO EC 25/7 NBR
TAPPO EC 26/4 NBR
TAPPO EC 26/7 NBR
TAPPO EC 28/4 NBR
TAPPO EC 28/7 NBR
TAPPO EC 30/5 NBR
TAPPO EC 30/7 NBR
TAPPO EC 32/7 NBR
TAPPO EC 35/5 NBR
TAPPO EC 35/7 NBR
TAPPO EC 35/8 NBR

Dimensioni Dimensions (mm)
TAPPO EC 37/5 NBR
TAPPO EC 37/7 NBR
TAPPO EC 40/7 NBR
TAPPO EC 42/7 NBR
TAPPO EC 45/7 NBR
TAPPO EC 47/4 NBR
TAPPO EC 47/7 NBR
TAPPO EC 47/10 NBR
TAPPO EC 50/10 NBR
TAPPO EC 52/7 NBR
TAPPO EC 52/8 NBR
TAPPO EC 52/10 NBR
TAPPO EC 55/10 NBR
TAPPO EC 60/7 NBR
TAPPO EC 60/8 NBR
TAPPO EC 62/10 NBR

Dimensioni Dimensions (mm)
TAPPO EC 62/7 NBR
TAPPO EC 62/8 NBR
TAPPO EC 65/10 NBR
TAPPO EC 68/8 NBR
TAPPO EC 70/10 NBR
TAPPO EC 72/ 7 NBR
TAPPO EC 72/ 8,5 NBR
TAPPO EC 72/9 NBR
TAPPO EC 72/10 NBR
TAPPO EC 75/7 NBR
TAPPO EC 75/10 NBR
TAPPO EC 80/10 NBR
TAPPO EC 80/12 NBR
TAPPO EC 85/10 NBR
TAPPO EC 90/10 NBR
TAPPO EC 90/12 NBR

Dimensioni Dimensions (mm)
TAPPO EC 95/10 NBR
TAPPO EC 95/12 NBR
TAPPO EC 100/10 NBR
TAPPO EC 110/10 NBR
TAPPO EC 110/12 NBR
TAPPO EC 115/10 NBR
TAPPO EC 120/12 NBR
TAPPO EC 120/13 NBR
TAPPO EC 125/12 NBR
TAPPO EC 130/12 NBR
TAPPO EC 130/13 NBR
TAPPO EC 140/15 NBR
TAPPO EC 145/12 NBR
TAPPO EC 150/13 NBR
TAPPO EC 150/15 NBR
TAPPO EC 160/12 NBR

Dimensioni Dimensions (mm)
TAPPO EC 168/12 NBR
TAPPO EC 170/12 NBR
TAPPO EC 180/12 NBR
TAPPO EC 200/13 NBR

SKF SEALS DISTRIBUTOR

Out of the Fridle experience we have established a new company division that is specialised in consulting, design and production of custom turned gaskets. Thanks to the SKF technology we can guarantee the highest performance sealing solution for any sector of application. We are able to machine elastomeric and thermoplastic materials with an outside diameter of up to 600 mm, guaranteeing a high quality and efficient service by offering each customer endless design and sealing solutions.

Dall'esperienza di Fridle è nata una nuova divisione aziendale specializzata nella consulenza, progettazione e produzione di guarnizioni tornite su misura. Grazie alla tecnologia SKF possiamo garantire la soluzione di tenuta più performante in qualsiasi settore di applicazione. Possiamo lavorare materiali elastomerici e termoplastici fino a un diametro esterno di 600 mm, garantendo un servizio di grande qualità ed efficienza offrendo a ogni cliente infinite soluzioni di design e di tenuta.



**PROGETTAZIONE E PRODUZIONE
A DISEGNO DI GUARNIZIONI**
DESIGN AND CUSTOMIZED SEALS PRODUCTION



MATERIALI CERTIFICATI
CERTIFIED MATERIALS



VELOCITÀ DI ESECUZIONE
FAST SERVICE



CONTROLLO QUALITÀ IN ENTRATA E IN USCITA
INBOUND AND OUTBOUND QUALITY CONTROL



EVENTI FORMATIVI
TRAINING EVENTS



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